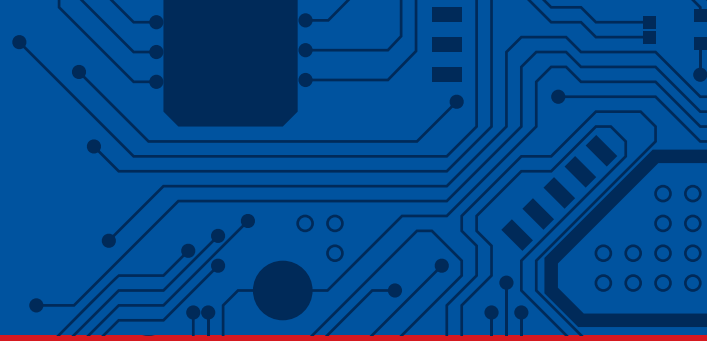


Jaycar Electronics



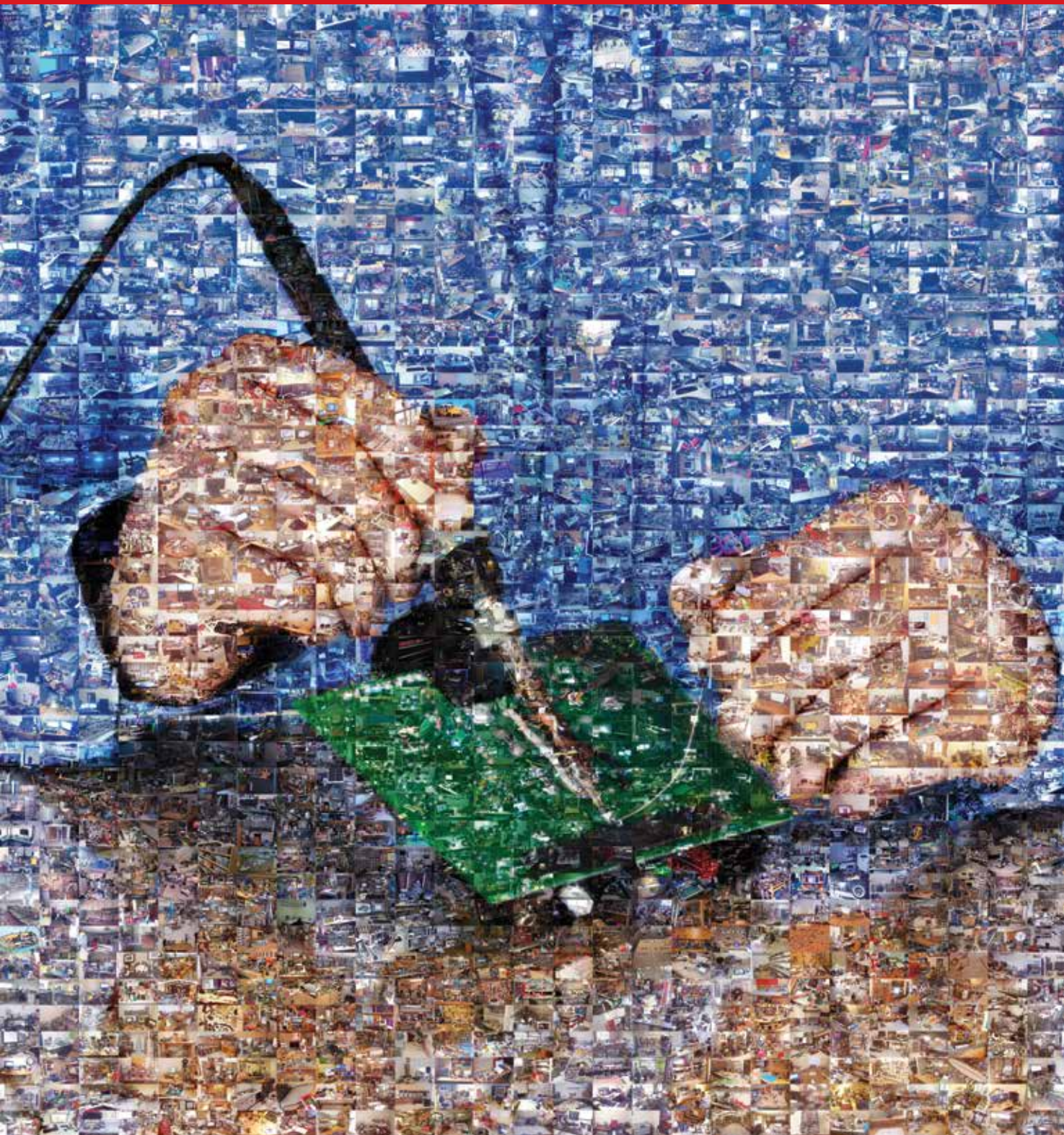
2016 ENGINEERING & SCIENTIFIC CATALOGUE

6950+ PRODUCTS

400+ NEW PRODUCTS

548 PAGES

\$4.95



QUICK INDEX

3D Printers & Filament	68
AC Adaptors	265
Action Cameras	519
Arduino Boards & Modules	73
Audio Video Leads	361
Batteries	279
Battery Chargers	285
Buzzers / Acoustic Alarms	195
Cable Ties	208
Capacitors	150
Car Dash Cams	487
Car Reversing Cameras	488
Car Speakers	503
Cat 5/6 Leads	323
CCTV Cameras	410
Computer Leads	327
Connectors	211
Digital Multimeters	12
Digital Video Recorders & Kits	403
Diodes	139
EMI & RFI Suppression	158
Enclosures	161
Fans	166
Fuses	178, 481
HDMI Switches & Leads	348
Heatshrink	204
Heatsinks	171
Home Alarms	426
Home Automation	313
ICs	145
Inverters	254
Kits	114
LEDs	133
Magnifiers	61
Mechanics	106
Networking	317
Nuts & Screws	209
PA Equipment	390
Panel Meters	33
Party Lighting	392
Plug Packs	265
Plugs & Sockets	211
Potentiometers	159
Powerboards	275
Power Supplies	260
Relays	190
Resistors	154
Sirens	431
Solar Panels	248
Solder	43
Soldering Irons / Stations	35
Speakers	380
Spray Cans	45
Switches	180
Tools	48
Torches	457
Transceivers - UHF & VHF	437
Transformers	174
Transistors	143
TV Antennas	368
Weather Stations	453
Wire & Cable	196
Wireless AV Senders	356

A LETTER TO OUR CUSTOMERS

It seems that my catalogue intro letters are forming a pattern. Last year I rambled on about the Second World War and its tremendous impact on technology.

This year I want to mention an unbelievable milestone that we are passing through as I write. History is clamouring to be heard.

I guess you have to be an "old codger" like me to appreciate this, but would you believe, right now the venerable '741 op-amp IC is 50, yes 50 years old!

Many of you know that Jack Kilby from Texas Instruments invented the first IC in 1958. It was not a really practical IC and some guys at Fairchild, developed what's called 'Planar Technology.' This basically enabled ICs to be fabricated using adaptations of printing techniques. This Planar technique is the basis of all ICs. The guys who did this? They are famous: Dr. Jean Hoerni (probably the most important innovator of the Planar process,) Dr. Gordon Moore, Dr. Jay Last and Dr. Robert Noyce.

Apart from Linear Devices small-scale digital ICs emerged 50 years ago as well.

The 7400 series, Transistor-Transistor logic originated by Texas Instruments in 1964 emerged from this period but not before other Logic families preceded. Pioneering companies were: Sylvania SUHL Logic, Motorola, National Semiconductor, Fairchild and Signetics.

The explosive development of ICs from the mid-60's was driven mainly by the deployment of the U.S. Minuteman missile, not the space race as you would assume.

Also, the release of the famous Digital Equipment corporation PDP series "mini" computers (and Data General, Hewlett-Packard, etc) created a huge demand for this logic. All of these minis were chock-a-block with TTL.

One of the more amazing facts from all of this is that many of these components have REMAINED as standard, generic products – and are STILL in our catalogue. Go to page 146 of this catalogue and you can still buy a 741 op-amp IC for an amazing \$1.95 (they were \$22 USD in 1965) or an original 7404 Hex Inverter (standard TTL logic)

for \$2.95. It really is a testament to how well designed these parts were in the first place to last so long.

I could say the same thing about the venerable 4000 series CMOS (around 1968) or early LED's.

I was a 20 year-old rep for an electronics company and I remember clearly quoting for a requirement for 10,000 5mm red diffused LED's in 1970. They were very close to our cheapest 5mm red LED which is cat. ZD-1690 on page 134. These LEDs are 18 cents each in a pack of 100. I quoted \$1.00 each for the LED and we won the order! \$10,000 was a huge order in those days.

If this fascinates you as much as it does us here at Jaycar, you will see some vignette stories of the early ICs and other semiconductors scattered throughout the catalogue.

Back to 2016!

As usual, we have a huge lineup of new products in our bumper 2016 catalogue. Following on from last year we have EVEN MORE Arduino products. Check out pages 73 - 99 to find 60+ new Arduino shields, sensors and other modules, a total of 170+ 'Duino' products. To assist in transitioning to the Arduino concept we have introduced a range of 'Linker' kits that simplifies the products so you can plug 'n' play. No excuses now!

We have also developed even more interesting 3D printer products, with commensurate price savings/performance improvements. Also, we have expanded the range of printer filament. For example, you can now get filaments that give finishes in wood, copper, aluminium, brass and gold. You can get green glow-in-the-dark, colour changing, and ten other popular colours.

We have a new range of compact LED sensor lights for cupboards, pantries, closets etc, new 3 pack torches for emergencies, 750 & 2500 lumen torches etc.

There is an extensive expansion of the venerable Anderson connector range. Now (at last!) we have chassis and panel mount Anderson connectors with dust caps etc.

Not only that we have a fabulous new range of automotive jump starters and portable power packs. We have a fantastic new IP44 weather proof power cord box for building sites, camping or outdoor entertainment.

We have the new USB type-C products found on the Apple® MacBook®, Google™ Chromebook™, Pixel and some recently released monitors. We also have the new DisplayPort v1.2a leads, in 1.8 & 3.0m.

There are some great wireless networking devices as well. Check the Nano N300 Wi-Fi extender, for example.

New Stores: Since last year's letter we have opened 4 stores in Australia – Mona Vale (Sydney), O'Connor (Perth), Tuggeranong (ACT) and Melton in Vic. We have also opened in Botany in NZ.

Other news: We are anxious to see the expansion of the "Maker" movement in Australia and NZ. We had a booth at the Maker Show at the Sydney Powerhouse and it was very popular. We would love to see more of this and will be attending the Maker Faire in Melbourne, Adelaide and Sydney this year.

Work on our website never seems to stop but I'm pleased to say that our online business is growing quite quickly. Web Users, look for the fantastic (online only) specials on this site (not in stores because stock is limited.)

Once again I've run off too much and there is not much space left.

We still have our share of problems (the falling Aussie dollar is a worry) but we are very confident about the future.

We are still enthusiasts (just like the people on the cover) and love the hobby we share with you.

Best wishes,
Gary Johnston.

Our cover is made up of 1200 images sent in by our Customers for our Workbench Competition. It's a bit like "Where's Wally?" ... if you search you may find your entry! Competition Winners? See page 10 and page 67.

HARDCORE	11
WORKBENCH EQUIPMENT	11
PROJECTS & LEARNING	68
COMPONENTS	133
ELECTROMECHANICAL & ENCLOSURES	161
CABLE & CONNECTORS	196
POWER & SMART ENERGY	239
SMART TECHNOLOGY	297
COMPUTER & MULTIMEDIA	317
SIGHT & SOUND	347
SECURITY & SURVEILLANCE	403
AUTO & OUTDOORS	437
GADGETS & GIZMOS	515
HOW TO ORDER	4
CARDS & PROGRAMMES	6-7
INDEX	529
JAYCAR STOCKISTS	546
NEW PRODUCT REVIEW	8-9
ORDER FORM	527
TERMS AND CONDITIONS	528

ORDER HOWEVER YOU LIKE

Visit your local Jaycar store

With almost 100 stores in Australia and New Zealand our network of retail stores continues to grow. Come and visit us at one of these locations - see our website or the back cover for full address, phone and trading hours details. Our friendly, experienced staff look forward to showing you our extensive range of products.

Call our toll free hotline 1800 022 888

Our experienced Techstore staff are waiting to take your order. Techstore operates Monday to Friday 8.30am to 5.30pm and Saturday 8.30am to 5.00pm (AEST).

Order online www.jaycar.com.au

Place orders from the convenience of your home on our secure website 24 hours a day, 7 days a week.

Post your order

Enclose your completed order form (on page 527) and send to:

Jaycar Electronics
PO Box 7172
Silverwater DC NSW 1811 Australia

Fax your order (02) 8832 3318

Complete your order form (on page 527) and fax it any time.

Kit Back Catalogue

www.jaycar.com.au/kitbackcatalogue
or see page 130.

We maintain in our central distribution warehouse an extensive range of discontinued Electronic Project Kits.

On our website each of these kits has a full description and, where available, a link to the original article on the Kit.



Trademark Notice

iPhone®, iPod®, & iPad® are trademarks of Apple inc. "The Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. All other trademarks and copyrights are property of their respective owners.

TALK TO THE TECHSTORE YOUR VIRTUAL ACCESS POINT

Freecall order line:

1800 022 888

Monday to Friday 8.30am to 5.30pm
Saturday 8.30am to 5.00pm (AEST)

Order via email:

techstore@jaycar.com.au

In a case where you are unable to get to your local Jaycar store, we provide you with the Jaycar Techstore. Phone or email your order to us at any time, or alternatively you may speak to one of our professional shop trained staff members who will be readily available to assist you.



ICON GUIDE



This is a brand new product for the Jaycar 2016 Catalogue. We're excited to bring it into our ranges!



This is a very popular item. Often the most feature packed or providing a solution to a very common problem.



VIDEO

A video providing more information is available on our website and our YouTube channel.



**MORE INFO
ONLINE**

More information, specs, drivers, or manuals for this product are available on our website.



DIY

This product includes some components that you have to build or assemble yourself.



BOOK

Learn more with our vast range of books. Look out for this book icon or see our index on page 545.



**NEW LOW
PRICE**

We've permanently dropped the price on this product - we're passing on those savings to you.



Product Warranty

These icons indicate the Warranty of a product, or if located on the top right hand corner of a page, the Warranty for all the products on that page. Warranty only covers faults in manufacture, unless stated otherwise.



Nerd Perks - Double Points Banner

This product offers double points for members of our Nerd Perks Rewards programme. Nerd Perks members receive additional specials and bonuses too. **See page 7 for more information!**

TECH TALK

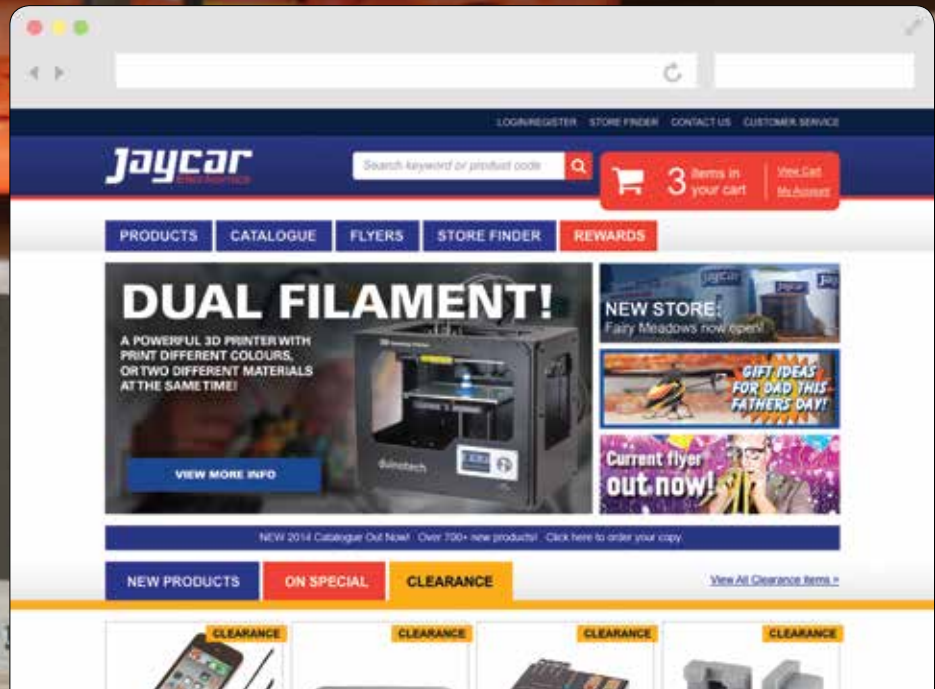
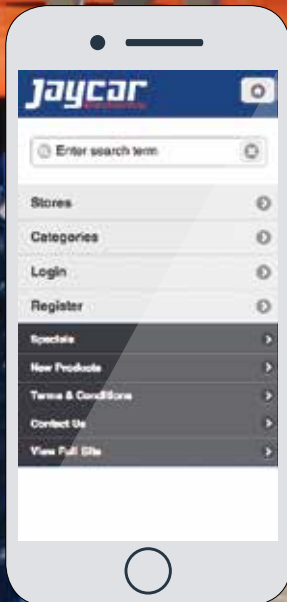
Our team of dedicated electronics experts suggest these tips for our catalogue to encourage you to experiment and think outside the box when it comes to your electronics projects.



Great Workbench!

This workbench submission was one of our favourites, and has won a \$100 Jaycoins gift card. **See page 10 for more information!**

SEARCH, BROWSE AND BUY ANYTIME, ANYWHERE!



Visit us: www.jaycar.com.au

Everything you could need in one convenient location, our website gives you a convenient resource for all things Jaycar, and Jaycar related.

- Product information
- Datasheets
- Monthly advertising
- Promotions
- Forum
- Videos
- Store locations
- Online exclusive specials and deals

Find Your Products

Find products with ease. Our website is fully integrated to our back-office systems, so it is always live with the most complete, accurate and up to date information. Searching is a breeze with a powerful keywords engine; similar and relevant items can be compared side by side for you to always find the most suitable product for your needs.

Flyers & Catalogue

Jaycar issues 20 flyers full of specials, deals and rewards bonuses each year. You probably get one at your local store, or even in your mailbox, but you can also download a digital copy and make sure you don't miss out on the great offers. We have also made an electronic PDF copy of this great catalogue which you can download and share freely.

Shop Online

Many of our customers choose to shop online with us because it is simple, reliable and saves tonnes of time. With our website, you can find all the information you need before purchase. Checkout is simpler to save you more time, and special deals are easier to spot to save you more dollars.

Store Finder

Even the most die-hard brick and mortar shop loyalist will appreciate this website as it's extremely simple to locate your nearest Jaycar store. We have over 300 company owned stores and authorised stockists across Australia and New Zealand. Simply enter your postcode or area to find the closest one to you.

Multimedia Resources

Find out more about products and technologies not only in text, specifications and data manuals, but also in high resolution pictures and demonstrative videos.

New Products, Specials, and Clearance Items

Watch this space closely as we constantly update it with new products, latest promotions and clearance sales. You will also see special events and important announcements on the pages, such as sporting stars visiting your local stores!

Size Does Not Matter!

Our new website is fully scalable so whether you are using a PC or Mac on the desk, or a Tablet on the couch, or even a Smartphone on the go, they are always 100% compatible with full functionality.

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT, WHATEVER YOUR CHANNEL!



facebook.com/jaycarelectronics



instagram.com/jaycar_electronics



twitter.com/jaycarau



youtube.com/user/JaycarVideo

CASH IN ON YOUR TRADE

SAVE WITH SPECIAL PRICING FOR TRADE CARD HOLDERS

If you're professionally engaged in the electronics industry, or use electronics in your day-to-day operations (eg, you're a builder, a repairer) or other industry, then a Jaycar Trade Card is for you!

You could be a Telecomms tech, an electrician or tech installing computer networking, a TV antenna or cable TV installer, repairman, an alarm installer or a computer hardware repairer. It's possible that you work for a TV or radio station or a company that just has heaps of electronic equipment to constantly maintain.

This is where the Jaycar Trade Card can save you real money.

While some companies are dedicated to supplying "trade", they're often less convenient than finding one of almost 100-stores in Australia and New Zealand that you can just walk into and purchase what you need. If you don't happen to be nearby, our Techstore is just an email or phone call away and can accept Trade Card purchases too.

Special trade discounts mean you'll save 5 to 40% on most items, off our already competitive prices! Buy in bulk and the savings are even better! If you're buying frequently, we can set you up with an account also, to simplify purchasing and account reconciliation for your business.

Of course, restrictions and qualifying criteria apply, but you can apply online, at your local store, or via the Techstore.

**Not available for transactions outside Australia and New Zealand. They are valid at Jaycar company owned stores ONLY. Products on special excluded.*



To apply for a Jaycar Trade Card*, visit:
www.jaycar.com.au/tradecard

GIFT CARDS[^]

FOR ALL OCCASIONS

Can't decide what to buy for that "hard to buy for" person? Give them a gift card! These are available for purchase in-store or online. These are a great gift idea.

To buy online visit:
www.jaycar.com.au/giftcards

*[^]Minimum value \$20 and conditions apply.
Only available in Australia and New Zealand
Customers in Company owned stores. Full terms
and conditions available - see our website.*



JOIN THE CLUB... ENJOY THE PERKS!

(even if you're just a nerd on the inside)

NERD PERKS

Last September we re-launched our loyalty programme, mainly because we thought the name was pretty boring. We asked you, our customers to help us find something more suitable. Nerd Perks is the combination of a couple of those suggestions. Being Nerds ourselves, we chose this name to celebrate the world changing innovations that the humble techo has accomplished in the last 30 years or so. Science, engineering, computing, the internet, email, have all made giant leaps in our lives, and all made possible by those who dared to embrace the world of technology and imagine the possibilities.

Currently, our 25,000+ Nerd Perk Members enjoy special promotional deals (in-store and online) and accrue points with every purchase. Once their points reach 500, Jaycar issues them a \$25 Jaycoins (another great suggestion by one of our Customers) Gift Card for use in any Jaycar Company owned store.

Don't miss out! Join today by completing the form in-store or on the website*. It only takes a few minutes and you can start accumulating points straight away!! Happy tinkering!

Toni Martin
Group CEO, Jaycar Electronics



**NERD
PERKS**

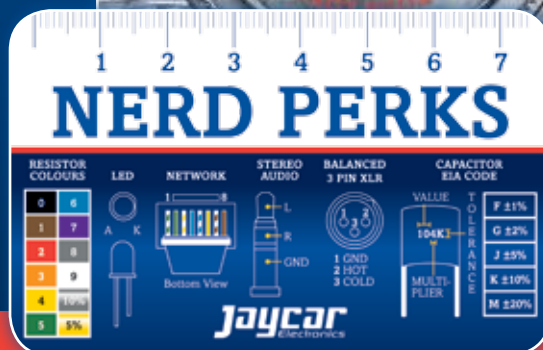
**2x
POINTS**

**LOOK FOR THE DOUBLE POINTS
BANNER IN THIS CATALOGUE**

**PLUS SPECIAL
PROMOTIONAL
DEALS JUST FOR
CLUB MEMBERS.
LOOK OUT FOR THEM AND LOTS MORE!**

To apply for Nerd Perks*, visit:

www.jaycar.com.au/nerdperks



NEW PRODUCTS

**Autoranging
DMM with
Non-Contact
AC Voltage
Detection**
QM-1529
Page 14



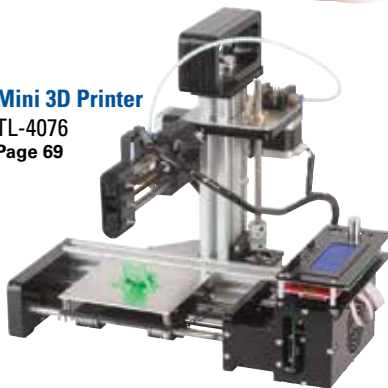
**Thermaltronics Curie Heat Technology
Soldering Station**
TS-1584
Page 42



**LED Magnifying
Lamp with
Third Hand**
TH-1989
Page 44



Mini 3D Printer
TL-4076
Page 69



**Linker Modules
& Accessories
for Arduino®**
Page 75



**Hydraulic Robot
Arm Kit**
KJ-8997
Page 107



**Exotic 3D
Printer Filament**
Page 71



**Lilypad Board
for Arduino®**
XC-4620
Page 80



**Anderson® 35A
SBS Mini Connectors**
Page 223



**Chassis Mount Adaptors for
Anderson® Connectors**
PT-4460
Page 224



**4 Stage 6/12V 4A Battery
Charger with LCD**
MB-3611
Page 239



**200W & 400W 12VDC to 230VAC
Pure Sine Wave Inverters**
Page 257



**In-line RCD
Circuit Breaker**
QP-2002
Page 269



**GPO Wall Socket
with 4 x USB Ports**
PS-4071
Page 269



**AA & AAA USB
Rechargeable
Batteries**
Page 284



**Quick Charge™
Adaptors and
Power Bank**
Page 297



**Solar Rechargeable
Power Bank**
MB-3723
Page 303



10 Port USB Charging Station
WC-7768
Page 298



**FM Transmitter
with Bluetooth®
Technology**
AR-3133
Page 306



**2GB & 4GB Digital
Voice Recorders**
Page 312



2016 CATALOGUE



**USB Type-C Leads,
Adaptors and Converters**
Page 324

DisplayPort Leads
Page 331



**Nano Wi-Fi
Extender**
YN-8369
Page 317

**In-Car Laptop
Power Supply**
MP-3334
Page 340



**USB Learning
Remote Control**
AR-1720
Page 358



**LCD Monitor Wall
Mount Brackets**
Page 375-376



**RGB LED Mini
Party Light**
SL-3482
Page 392



**NVR Kit with
720p IP Cameras**
QV-3130
Page 403



**720p AHD
PTZ Bullet Camera**
QC-8670
Page 413



**Dummy Camera
Theft Prevention Kit**
LA-5336
Page 417



**3G GPS/GSM
Personal Tracker**
LA-9028
Page 436



8 Way HDMI UHD Splitter
AC-1769
Page 349



**Wireless
AV Sender / Receiver**
AR-1913
Page 356

USB IR Extender Kit
AR-1834
Page 358



**Wi-Fi HDMI
Miracast Dongle v2**
AR-1922
Page 358

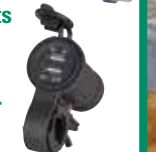


**Solar Power Packs with
Pure Sine Wave Inverters**

MB-3740
Page 468



Motorbike Power Sockets
Page 479



Pocket Size Jump Starter

MB-3754
Page 484



**1296p HD Car Event
Recorder with GPS**

QV-3856
Page 488



5W UHF CB Radio

DC-1122
Page 441



**750 & 2,500 Lumens
Rechargeable LED Torches**
Page 458



**Secret
Book Safe**

GT-3707
Page 523



**USB Keystroke
Prankster**

GE-4300
Page 522



**Quadcopter
with First Person View Camera**

GT-4160
Page 517



**1080p Wi-Fi
Action Camera**
QC-8028
Page 519



**Carry Case for
Action Cameras**
QC-8059
Page 520

SHOW US YOUR WORKBENCHES!

Our original "Show us your Workbench" competition had a single 3D printer prize. With such a huge response, we have expanded the prize pool to 10 3D printers, and over \$2000 in vouchers. Here's why....



As many of you know, we decided to do something totally different for our 2016 Catalogue. This cover is all of you! No that's not a typo – it is still "for you", but it is "of you" too. About 1200 of you to be precise. It represents the diversity and varying interests that you all have, which we love hearing about each time you walk into our stores and have a chat. We now see everything from kits and high voltage Tesla coils, model trains, light aircraft and sub-sea ROVs! We would like to thank each of you who were involved in sharing what you love about electronics.

Choosing a winner has been extremely difficult, as we have received thousands of great entries. We were totally overwhelmed by the huge response to the competition. So we expanded our prizes to give away not one but ten 3D Printers with the top 3 Workbenches receiving our top of the line Dual Filament Printer (TL-4090) and the other 7 runners up receiving our duinotech Mini 3D Printer (TL-4076).

The top 3 Workbenches are shown on this page.

1. Rick Fletcher who shops with one of our Authorised Stockists, Betta Electrical Bega – a fantastically equipped electronics workbench, organised, everything within reach and with the added bonus of the his model railway running around the walls.

2. Jonathan Skinner who shops at our Jaycar Geelong store – check out the wall behind the workbench – the poster was produced about 15 years ago and looks in pristine condition. His equipment is close at hand for his projects.

3. Brett Wallace who shops at Jaycar Penrith store – again a well organised work space – "The Manvironment" with the Arduino powered CNC machine.

The seven runners up are located on page 67 and because we had so many great entries we have decided to reward another 23 outstanding entries with a \$100 Jaycoins Gift Card. These special mentions are located throughout the catalogue, look for the icon attached to their photograph.

Sadly, not all entries could be winners or be published, but there are around 1200 on the cover, and many more scattered throughout the catalogue. So be sure to carefully search the cover and each page to see if you can find yours!

Again many thanks to all.
Toni Martin
Group CEO, Jaycar Electronics



Sent to us by Rick Fletcher, NSW



Sent to us by Jonathan Skinner, VIC



Sent to us by Brett Wallace, NSW

WORKBENCH EQUIPMENT

Tools & Cases	64
Test & Measurement	13
Soldering & Service Aids	35

PROJECTS & LEARNING

Projects	67
Learning	115

COMPONENTS

Active Components	133
Passive Components	150

ELECTROMECHANICAL & ENCLOSURES

Electromechanical	166
Enclosures	161

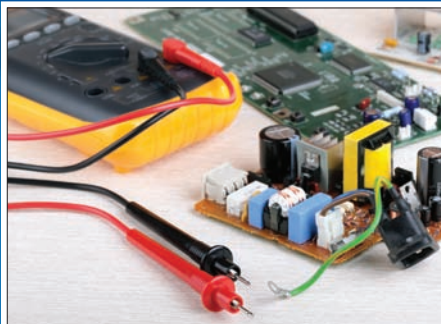
CABLE & CONNECTORS

Cable	196
Connectors	211

Background Image sent to us by Luis, North Island NZ who shops at our Jaycar Manukau store

"Nothing speaks more about my engineering qualities like my little workshop. The place is full of innovative tools, books, product catalogs, and electronic components that are necessary for my tinkering."

DIGITAL MULTIMETERS



Remember, so confident are we that we offer a **LIFETIME GUARANTEE** on most DMMs.



You would not believe how many multimeters we sell every year. Not that we could prove it, we probably sell more than any other mob in Aust/NZ. Why? We think we offer the best range of meters at the best prices. And no, we don't even sell that flash American meter either, and that's no fluke!

Most years we only make maybe one change to our range. To break into our line-up it has to be an outstanding product. This year we've found a handful of beauties.

We think that, even though many of our meters are astonishingly cheap, we still offer a lifetime guarantee on most of them. So yes, you can spend 2-3 times our price on basically a similar meter (most of them are also made in China anyway). But why not keep the savings in your pocket, or shout yourself a new shirt or some movie tickets and enjoy the value a Jaycar multimeter brings.



WORKBENCH EQUIPMENT - TOOLS, TEST & SOLDERING

TEST & MEASUREMENT

Clamp Meters	21
Digital Multimeters	13
Digital Scales	31
Digital Thermometers	27
Function Generator	26
Oscilloscopes	24
Panel Meters	33
Sound Level Meters	29
Specialist Meters & Testers	20
USB Inspection Cameras	32

TOOLS & CASES

Cable Tools	52
Cutters & Pliers	48
Crimpers	50
Drill Bits & Sets	60
Electric Screwdrivers & Drills	55
Screwdrivers	55
Tool Boxes / Cases	64
Tool Kits	57
Ultrasonic Cleaners	62
Watchmaker Tools	63

SOLDERING & SERVICE AIDS

Adhesives & Tape	46
Aerosols	45
Gas Torches	35
Magnifiers	61
PCB Prototypes	100
Solder & Accessories	43
Soldering Irons	38
Soldering Stations	40
Stands & Safety	44
Anti-static Product	59

DIGITAL MULTIMETERS COMPARISON GUIDE

Use our selection guide to help choose...

	QM-1500	QM-1517	QM-1527	QM-1529	QM-1328	QM-1321	QM-1323	QM-1551	QM-1548	QM-1444	QM-1570	QM-1549	XC-5078	QM-1594	QM-1571	QM-1574	QM-1543	QM-1576	QM-1493
Display (Count)	2000	2000	2000	2000	4000	4000	4000	4000	2000	4000	4000	4000	2000	4000	4000	4000	40000	40000	4000
Security Category	Cat II 500V	Cat III 500V	Cat III 500V	Cat III 600V	Cat III 600V	Cat III 1000V	Cat III 600V	Cat III 600V	Cat III 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat IV 600V	Cat IV 600V	Cat IV 600V	Cat III 1000V
Backlight	-	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓
Bargraph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓
Auto-range	-	-	-	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-
True RMS	-	-	-	-	-	✓	-	✓	-	-	✓	✓	-	-	✓	✓	✓	✓	-
VDC	1000V	500V	500V	600V	600V	1000V	600V	600V	1000V	600V	600V	1000V	600V	250V	1000V	1000V	1000V	1000V	1000V
VAC	750V	500V	500V	600V	600V	750V	600V	600V	750V	600V	600V	1000V	600V	250V	1000V	1000V	1000V	1000V	750V
ADC	10A	10A	10A	10A	200mA	10A	10A	10A	10A	10A	10A	10A	200mA	10A	10A	10A	10A	10A	-
AAC	-	-	-	10A	200mA	10A	10A	10A	10A	10A	20A	10A	200mA	10A	10A	10A	10A	10A	-
Resistance	2M	2M	2M	20M	40M	40M	40M	40M	20M	40M	60M	40M	20M	20M	40M	40M	40M	40M	400R
Capacitance	-	-	-	-	100µF	100µF	100µF	100µF	200µF	100µF	100µF	100µF	-	-	100µF	40µF	40mF	40mF	-
Frequency	-	-	-	-	10MHz	10MHz	10MHz	10MHz	-	10MHz	10MHz	10MHz	-	-	10MHz	10MHz	10MHz	10MHz	-
Inductance	-	-	-	-	-	-	-	-	20H	-	-	-	-	-	-	-	-	-	-
Temperature	-	-	-	-	-	-	760°C	760°C	1000°C	760°C	760°C	-	-	-	760°C	1000°C	760°C	1200°C	-
Tachometer	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
Duty Cycle	-	-	-	-	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	-	-	-	-
Dwell	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
Continuity	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
Diode Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
Transistor Test	✓	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
Data Logger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	✓	-
Relative Measurement	-	-	-	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓	✓	✓	✓	-
Data Hold	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Min / Max Hold	-	-	-	-	-	✓	-	-	-	-	✓	-	Max hold	-	✓	-	✓	✓	-
Non Contact Voltage	-	-	✓	✓	-	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-
IP Rated	-	-	-	-	-	-	-	-	-	-	IP65	IP67	-	-	IP67	IP67	IP67	IP67	-
Page	13	13	13	14	14	14	15	15	15	16	16	17	20	17	18	18	19	19	20

DIGITAL MULTIMETERS

Low Cost DMM

- 19 Range
- 2000 Count
- Transistor test
- Diode Test
- 10A DC current
- Ideal first meter
- Compact size

BONUS

This meter includes
QUALITY
Test Leads



PERFECT FIRST METER

This is a full featured meter with plug-in 4mm probes AND transistor tester. This is the ideal first multimeter, and will give years of faithful service, in fact, you will only need to replace this meter if you require a unit with very high input impedance.



WARRANTY

Economy Cat III Multimeter with Data Hold

- Cat III 500V
- 2000 Count
- Data Hold
- Square Wave Output
- Backlit Display
- Continuity Buzzer

BONUS

This meter includes
QUALITY
Test Leads



A simple and practical multimeter with a luminous backlit display, data hold function, shock-proof durable design. A fully featured multimeter perfect for a student or the enthusiast on a budget.



WARRANTY

Data Hold DMM with Non Contact AC Voltage Detection

- 19 Range
- 2000 Count
- Non-contact voltage detection
- Diode Test
- 10A DC current
- Data Hold
- Backlight
- Auto power-off
- Continuity Buzzer

BONUS

This meter includes
QUALITY
Test Leads



A handy digital multimeter with lots of features at a great price has all the features you would expect including holster and probes. Excellent for those that are ready to take the next step in the world of electronics. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.



WARRANTY

Specifications	QM-1500	QM-1517	QM-1527
Display	2000 count	2000 Count	2000 count
Security Class	Cat II 500V	Cat III 500V	Cat III 500V
Basic DCV accuracy	0.500%	2.000%	0.800%
DC voltage	200mV, 2V, 20V, 200V, 1000V (± 0.5%)	200mV, 2000mV, 20V, 200V, 500V ± (1.0% + 10)	200V, 500V (± 0.8%)
AC voltage	200V, 750V (Max input 750V RMS) (± 1.2%)	200V, 500V ± (2.0% + 10)	200uV, 2mV, 20mV, 200V, 500V (± 1.2%)
DC current	200uA, 2mA, 20mA, 200mA, 10A (± 1.2%)	200uA, 2000uA, 20mA, 200mA, 10A ± (2.0% + 5)	200uA, 2mA, 20mA, 200mA, 10A (± 1%)
AC current	-	-	-
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1.2%)	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ ± (2.0% + 5)	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1%)
Capacitance	-	-	-
Frequency	-	-	-
Inductance	-	-	-
Temperature	-	-	-
Ave/RMS	Ave	Ave	Ave
Input impedance	1M	1M	1M
Special features	Transistor test	Data hold, backlight, square wave output, buzzer	Transistor test, data hold, backlight, non-contact voltage
Dimensions	125(H) x 68(W) x 23(D)mm	115(H) x 65(W) x 30(D)mm	145(H) x 65(W) x 35(H)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+	↑	Cat.	Qty 1+	Qty 3+	Qty 6+	↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1500	\$9.95	\$8.75	\$7.75		QM-1517	\$14.95	\$13.35	\$11.70		QM-1527	\$19.95	\$17.95	\$15.95

DIGITAL MULTIMETERS (CONTINUED)

Autoranging DMM with Non-Contact Voltage Detection

- Cat III 600V
- 2000 count
- Auto ranging
- Non-contact voltage detection
- Backlight
- Data hold
- Low battery warning
- Auto power-off

BONUS

This meter includes **QUALITY** Test Leads



This Cat III DMM is suitable for voltages up to 600VAC and has 15mm high digits for easy reference. Featuring overload protection and indication, diode check, continuity check, and you won't have to worry about batteries going flat with the auto power off feature. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.



Autoranging Pocket DMM

- Autoranging
- 4000 count
- Removable leads
- Auto power-off
- Data hold & relative function
- Capacitance
- Frequency
- Pocket sized

BONUS

This meter includes **QUALITY** Test Leads



A handy little pocket DMM with plenty of features. Large LCD display with 4000 count, autoranging measurement with data hold and relative functions, and with replaceable leads makes this a perfect companion to any technician, field engineer, mechanic, or even a handyman. Also does capacitance, frequency and duty cycle.



Autoranging True RMS DMM with Non-Contact Voltage Detection

- Cat III 1000V
- 4000 count
- Overload protection
- Capacitance
- Frequency
- Min/max hold
- Backlight
- Auto power off

BONUS

This meter includes **QUALITY** Test Leads



Our entry level True RMS Multimeter featuring autoranging, 1000V CAT III rating, Non contact voltage detection. With a sturdy construction and backlight display and quality test leads this is the perfect multimeter for an apprentice or novice hobbyist.



Specifications	QM-1529	QM-1328	QM-1321
Display	2000 count	4000 count	4000 Count
Security Class	Cat II 600V	Cat III 600V	Cat III 1000V
Basic DCV accuracy	0.800%	1.000%	1.500%
DC voltage	200mV, 2V, 20V, 200V, 600V ($\pm 0.8\%$)	400mV, 4V, 40V, 400V, 600V ($\pm 1.0\%$)	40mV, 400mV, 4000mV, 40V, 400V, 1000V
AC voltage	200uV, 2mV, 20mV, 200V, 600V ($\pm 1\%$)	4V, 40V, 400V, 600V ($\pm 1.5\%$)	40mV, 400mV, 4000mV, 40V, 400V, 750V
DC current	200uA, 2mA, 20mA, 200mA, 10A ($\pm 3\%$)	40mA, 200mA ($\pm 1.5\%$)	400uA, 4000uA, 40mA, 400mA, 4A, 10A
AC current	200uA, 2mA, 20mA, 200mA, 10A ($\pm 3\%$)	40mA, 200mA ($\pm 2.5\%$)	400uA, 40mA, 400mA, 4A, 10A
Resistance	200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω , 20M Ω ($\pm 1.5\%$)	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 1.0\%$)	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω
Capacitance	-	4nF, 40nF, 400nF, 4uF, 40uF, 100uF ($\pm 3.0\%$)	10nF, 100nF, 1uF, 10uF, 100uF, 1mF, 10mF, 100mF
Frequency	-	up to 10MHz ($\pm 1.5\%$)	10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz
Inductance	-	-	-
Temperature	-	-	-
Ave/RMS	Ave	Ave	True RMS
Input impedance	10M	10M	10M
Special features	Data hold, backlight, non-contact voltage	Pocket size, removable leads, data hold, relative function	Backlight, min/max hold
Dimensions	140(H) x 70(W) x 31(D)mm	115(H) x 60(W) x 16(D)mm	200(H) x 92(W) x 60(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1529	\$24.95	\$22.45	\$19.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1328	\$34.95	\$31.45	\$27.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1321	\$39.95	\$35.90	\$31.90

DIGITAL MULTIMETERS (CONTINUED)

Cat III DMM with Temperature

- Non-contact voltage
- Duty cycle
- Backlight
- Rugged moulded case

BONUS

This meter includes **QUALITY** Test Leads



A budget-priced meter with everything you need - capacitance, temperature and 10A on AC and DC, compact and light weight with rugged moulded case.



Case & K-probe included



Cat III Inductance Capacitance DMM

- Hfe transistor test
- Inductance
- Capacitance
- Auto power-off
- 10A AC & DC current
- Diode test
- Audible continuity
- Data hold

BONUS

This meter includes **QUALITY** Test Leads



A feature packed DMM with wide range of inductance and capacitance measurement which are measured via the standard probes. Ideal for audio enthusiasts designing their own crossovers. Features large LCD, auto power-off and temperature measurement.



Cat III True RMS Autoranging 4000 Count DMM with Temperature

- Backlit LCD
- Leads & k-type thermocouple included
- Automatic (-) negative polarity indication
- Data hold
- 30 min auto power off
- Carry/storage case for DMM & leads

BONUS

This meter includes **QUALITY** Test Leads



A powerful true RMS multimeter that includes non-contact voltage testing, backlit LCD, and a carrying pouch. The rear of the unit has a foldout stand so you can sit the meter at a comfortable viewing angle on your desk, workbench or car. Powered by 1 x 9V battery (included)



Specifications	QM-1323	QM-1548	QM-1551
Display	4000 count	2000 count	4000 count
Security Class	Cat III 600V	Cat III 600V	Cat III 600V
Basic DVC accuracy	0.500%	0.500%	0.500%
DC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 0.5\%$)	200mV, 2V, 20V, 200V, 1000V ($\pm 0.5\%$)	400mV, 4V, 40V, 400V, 600V ($\pm 1.5\%$)
AC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 1.2\%$)	200mV, 2V, 20V, 200V, 750V ($\pm 0.5\%$)	400mV, 4V, 40V, 400V, 600V ($\pm 2.0\%$)
DC current	4mA, 40mA, 400mA, 10A ($\pm 2.5\%$)	20mA, 200mA ($\pm 1.0\%$), 10A ($\pm 2.0\%$)	400 μ A, 4000 μ A, 40mA, 400mA, 10A ($\pm 1.5\%$)
AC current	4mA, 40mA, 400mA, 10A ($\pm 3\%$)	2mA, 200mA ($\pm 1.0\%$), 10A ($\pm 3.0\%$)	400 μ A, 4000 μ A, 40mA, 400mA, 10A ($\pm 1.8\%$)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 40M Ω ($\pm 1.2\%$)	200 Ω , 2K Ω , 20K Ω , 200K Ω , 2M Ω , 20M Ω ($\pm 0.8\%$)	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 1.2\%$)
Capacitance	4nF, 40nF, 4 μ F, 40 μ F, 100 μ F ($\pm 3\%$)	20nF, 200nF, 2 μ F, 200 μ F ($\pm 4.0\%$)	40nF, 400nF, 4 μ F, 40 μ F, 100 μ F ($\pm 3\%$)
Frequency	4kHz, 40kHz, 400kHz, 4000kHz, 10MHz ($\pm 1.5\%$)	-	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz ($\pm 1.2\%$)
Inductance	-	20mH, 200mH, 2H, 20H ($\pm 3.0\%$)	-
Temperature	-20°C to +760°C ($\pm 3\%$)	-20°C to +1000°C ($\pm 3.0\%$)	-20°C-760°C / -4°F-1400°F ($\pm 3\%$)
Ave/RMS	Ave	Ave	True RMS
Input impedance	10M	10M	7.8M
Special features	Non-contact voltage, duty cycle, backlight	Hfe test, temperature, inductance	Continuity, diode check, blue backlit LCD, non-contact voltage, foldout stand
Dimensions	138(H) x 68(W) x 37(D)mm	195(H) x 92(W) x 55(H)mm	138(L) x 68(W) x 37(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1323	\$49.95	\$44.95	\$39.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1548	\$64.95	\$58.45	\$51.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1551	\$69.95	\$62.95	\$55.95

DIGITAL MULTIMETERS (CONTINUED)

Automotive DMM with Inductive Pickup

- RPM x1, x10
- Inductive pickup for RPM
- Dwell angle
- Resistance
- DC volts
- Temperature
- Frequency
- Duty cycle %
- Data hold & relative function



BONUS

This meter includes
QUALITY
Test Leads

A multimeter for all your automotive diagnostic needs. Features an inductive pickup for RPM measurement, dwell angle, frequency, duty cycle, data hold, relative function, backlit display and temperature, and works with engines of 2 to 10 cylinders. An absolute must have for the backyard mechanic or qualified tradesperson alike. Probes, alligator clip probes and holster included.



Mini True RMS Digital Multimeter, Autoranging

- IP65 weatherproof
- True RMS
- Auto power-off
- Backlight
- Data hold & relative function
- Non-contact AC voltage detection
- Duty cycle %
- Audible continuity
- 10A current range



BONUS

This meter includes
QUALITY
Test Leads

Product colour will vary to one shown

This compact true RMS digital multimeter has a double moulded plastic housing and high contrast 4000 count LCD display. Duty Cycle: 9.99%. It is IP65 rated and has been drop tested to a height of 2 metres. Includes test leads, 9V battery and carry case.

Type K temperature probe included



Specifications	QM-1444	QM-1570
Display	4000 count	4000 count
Security class	Cat III 600V	Cat III 600V
Basic DC accuracy	1.500%	0.5%
DC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 1.5\%$)	400mV, 4V, 40V, 400V, 600V (1.0%)
AC voltage	4V, 40V, 400V, 600V ($\pm 1.5\%$)	4V, 40V, 400V, 600V (1.2%)
DC current	400uA, 4mA, 40mA, 400mA ($\pm 1.5\%$), 4A, 10A ($\pm 2.5\%$)	400uA, 4000uA, 40mA, 400mA, 4A, 10A (1.2%)
AC current	400uA, 4mA, 40mA, 400mA, 4A, 10A	400uA, 4000uA, 40mA, 400mA, 4A, 10A (1.8%)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 1.2\%$)	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω (1.5%)
Capacitance	40nF, 400nF, 4uF, 40uF, 100uF ($\pm 3.0\%$)	40nF, 400nF, 4uF, 40uF, 400uF (4.5%)
Frequency	5Hz~10MHz ($\pm 1.2\%$)	Up to 10KHz (1.2%)
Inductance	-	-
Temperature	-20°C to +760°C ($\pm 3.0\%$)	-20°C to 750°C ($\pm 1.2\%$)
Ave/RMS	Ave	RMS
Input impedance	10M	10M
Special features	Inductive pickup, Dwell, RPM, duty cycle	Non contact ACV detection, Data Hold, Min/Max Recording, Heavy Duty & Compact
Dimensions	146(H) x 66(W) x 42(D)mm	135(H) x 70(W) x 45(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1444	\$79.95	\$71.95	\$63.95

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1570	\$89.95	\$80.95	\$71.95

DIGITAL MULTIMETERS (CONTINUED)

IP67 True RMS Autoranging Cat IV DMM

- IP67 waterproof
- True RMS
- Auto power-off
- Backlight
- Data hold & relative function
- Diode test
- Autoranging
- Audible continuity
- 10A current range



BONUS

This meter includes **QUALITY** Test Leads

This is an excellent true RMS multimeter that features a large, easily read display and carries an IP67 environmental rating. This means the multimeter is waterproof and will not be damaged if accidentally dropped into water or left out in the rain. The meter has data hold and relative measurement capabilities and is housed in a robust, double moulded case. Includes leads, soft carry case and user manual. Double moulded case.



LIFETIME GUARANTEE

Multifunction Environment Meter with DMM

- Sound level meter
- Light level meter
- Indoor temperature & humidity measurement
- Non contact voltage



BONUS

This meter includes **QUALITY** Test Leads

A multi-function environment meter that combines the functions of a sound level meter, light meter, humidity meter and temperature meter. Typical sound applications include checking acoustics of recording studios, auditoriums and professional hi-fi installations.

The light and humidity meters are ideal for video photographers, greenhouse and hydroponic setups, etc. Others who should find this meter essential include interior designers, factory and office managers, record and archive keepers, schools, hospitals, laboratories and, of course, universities.



LIFETIME GUARANTEE

Specifications	QM-1549	QM-1594
Display	4000 count	4000 count
Security Class	Cat IV 600V	CAT IV 600V
Basic DCV accuracy	0.500%	0.500%
DC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.5\%$)	400mV, 4V, 40V, 100V, 250V ($\pm 1\%$)
AC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.8\%$)	400mV, 4V, 40V, 100V, 250V ($\pm 1.2\%$)
DC current	4mA, 40mA, 400mA, 10A ($\pm 1.2\%$)	400 μ A, 4mA, 40mA, 400mA, 10A ($\pm 1\%$)
AC current	4mA, 40mA, 400mA, 10A ($\pm 1.8\%$)	400 μ A, 4mA, 40mA, 400mA, 10A ($\pm 1\%$)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 40M Ω ($\pm 0.8\%$)	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 0.8\%$)
Capacitance	4nF, 40nF, 4 μ F, 40 μ F, 100 μ F ($\pm 3\%$)	50nF, 500nF, 5 μ F, 50 μ F, 100 μ F ($\pm 3.5\%$)
Frequency	4kHz, 40kHz, 400kHz, 4MHz 10MHz ($\pm 1.5\%$)	5Hz, 50Hz, 500Hz, 5kHz, 500kHz, 10MHz ($\pm 1.5\%$)
Inductance	-	-
Temperature	-	-20°C to 750°C ($\pm 1.2\%$)
Ave/RMS	True RMS	Ave
Input impedance	10M	10M
Special features	IP67, data-hold, relative measurement, backlight	LUX, SPL, Humidity
Dimensions	182(L) x 82(W) x 55(D)mm	170(H) x 78(W) x 48(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1549	\$94.95	\$85.45	\$75.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1594	\$129.00	\$115.95	\$102.95

DIGITAL MULTIMETERS (CONTINUED)

IP67 True RMS Autoranging Cat IV DMM with Wireless USB

- IP67 waterproof
- True RMS
- Wireless USB interface
- PC logging software
- Auto power-off
- Backlight
- Non-contact voltage
- Data hold
- Diode test
- Autoranging
- Audible continuity
- 10A current range
- Double moulded case



BONUS

This meter includes QUALITY Test Leads

A quality true RMS multimeter with a wireless USB computer interface, non-contact voltage indicator, relative zero and data hold. Double moulded housing is impact resistant and quite durable, and IP67 waterproof rating makes this DMM capable of even the harshest conditions.

Wireless USB interface and included logging software allow for computer based live data logging whilst keeping your computer completely isolated and protected.



LIFETIME GUARANTEE

Tough Heavy Duty IP67 True RMS Autoranging DMM

- IP67 waterproof
- Shockproof rugged design (2m drop)
- True RMS
- Datalogging
- Backlit LCD
- Auto power-off
- Data hold/Min/Max recording
- Analogue bargraph
- Relative measurement
- Diode test
- Autoranging
- Audible continuity
- 10A current range
- Double moulded case

DID YOU KNOW?

This DMM is drop proof to 2 metres!



BONUS

This meter includes QUALITY Test Leads

This rugged and waterproof multimeter is designed for professional use and will provide many years of reliable service, even when thrown around the back of the van. It measures up to 1,000 volts AC & DC and is rated to CAT IV 600.

The meter includes temperature and capacitance ranges, as well as peak-hold and min/max options. It is water and dustproof (IP67) and features a double moulded case that will easily withstand a 2m fall. Includes K-type thermocouple.



LIFETIME GUARANTEE

Specifications	QM-1571	QM-1574
Display	4000 count	4,000 count
Security Class	Cat IV 600V	Cat IV 600V
Basic DCV accuracy	0.500%	0.060%
DC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.5\%$)	400mV, 4V, 40V, 400V, 1000V ($\pm 0.5\%$)
AC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.8\%$)	400mV, 4V, 40V, 400V, 1000V ($\pm 1.0\%$)
DC current	4mA, 40mA, 400mA, 10A ($\pm 1.2\%$)	400uA, 4mA, 40mA, 400mA, 10A ($\pm 1.1\%$)
AC current	4mA, 40mA, 400mA, 10A ($\pm 1.8\%$)	400uA, 4mA, 40mA, 400mA, 10A ($\pm 1.2\%$)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ ($\pm 0.8\%$)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ ($\pm 1.1\%$)
Capacitance	4nF, 40nF, 4μF, 40μF, 100μF ($\pm 3\%$)	4nF, 40nF, 4μF, 40μF, 4mF, 40mF ($\pm 3\%$)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 1.5\%$)	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 0.1\%$)
Inductance	-	-
Temperature	-20°C to +760°C ($\pm 3.0\%$)	-40°C to +1000°C ($\pm 1.2\%$)
Ave/RMS	True RMS	True RMS
Input impedance	10M	10M
Special features	Wireless USB, IP67, True RMS, non-contact voltage	Shockproof to 2m
Dimensions	170(L) x 79(W) x 50(H)mm	180(L) x 82(W) x 57(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1571	\$129.00	\$115.95	\$102.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1574	\$129.00	\$115.95	\$102.95

DIGITAL MULTIMETERS (CONTINUED)

IP67 True RMS Cat IV DMM 40,000 Count

- IP67 waterproof
- Auto power-off
- Backlight
- Data hold
- Diode test
- Autoranging
- Audible continuity
- Relative measurement
- Double moulded case

BONUS

This meter includes QUALITY Test Leads



This rugged meter is designed for professional use and will provide many years of reliable service. It measures up to 1,000 volts AC & DC and is rated to CAT IV 600V. The meter includes temperature and capacitance ranges, as well as peak-hold and min/max options.

It is water and dust-proof (IP67) and features a double moulded case that will easily withstand a 2m fall. Includes K-type thermocouple.



Specifications	QM-1543
Display	40,000 count
Security Class	Cat IV 600V
Basic DCV accuracy	0.060%
DC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.06\%$)
AC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 1.0\%$)
DC current	400uA, 4mA, 40mA, 400mA, 10A ($\pm 1\%$)
AC current	400uA, 4mA, 40mA, 400mA, 10A ($\pm 1.5\%$)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 40M Ω ($\pm 0.3\%$)
Capacitance	4nF, 40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF ($\pm 3.5\%$)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 0.1\%$)
Inductance	-
Temperature	-20°C to +760°C ($\pm 1\%$)
Ave/RMS	True RMS
Input impedance	10M
Special features	Backlight, data hold, peak hold, min / max hold, relative measurement, bargraph, IP67
Dimensions	182(L) x 82(W) x 55(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1543	\$189.00	\$169.95	\$150.95

IP 67 True RMS Cat IV DMM with Meterbox Smartphone App

Meterbox app available on Google Play and iTunes®.



- IP 67 waterproof
- True RMS
- Bluetooth® Smartphone/ PC interface
- Data log storage
- 9999 measurement
- Triple LCD with bargraph
- Backlight
- Auto power-off
- Data hold/Min/Max recording
- Relative measurement
- Diode test
- Autoranging
- Audible continuity
- 10A current range
- Double moulded case

BONUS

This meter includes QUALITY Test Leads



Smartphone screenshot



A multimeter with all the bells and whistles you would expect from our flagship multimeter, but it's so much more than that. With an in-built Bluetooth® module, this DMM can connect to your Smartphone, and using the free Meterbox app you can do everything you would expect to be able to do with a PC, and more. Stop carrying a laptop to job sites, all you need is this multimeter and the phone you already had in your pocket! View live measurements, trend graphs, data log, email your results and upload them to the cloud for your colleagues to review - all from your Smartphone! Of course, it still has all the other top notch features like a double moulded case for impact resistance and IP67 waterproof protection, internal data storage capability, data hold with min/max recording, wide capacitance range, and much more. For easy reading, a triple LCD backlit screen with bargraph displays all measurements clearly under all conditions.

A truly fantastic and ground breaking multimeter design

- Meterbox Smartphone app.



Specifications	QM-1576
Display	40,000 count (0.01mV, 0.01uA, 0.01R)
Security Class	Cat IV 600V
Basic DCV accuracy	0.060%
DC voltage	400mV, 4V, 40V, 400V, 1000V (+ - 0.06%)
AC voltage	400mV, 4V, 40V, 400V, 1000V (+ - 1.0%)
DC current	400uA, 4mA, 40mA, 400mA, 10A (+ - 1%)
AC current	400uA, 4mA, 40mA, 400mA, 10A (+ - 1.5%)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 40M Ω (+ - 0.3%)
Capacitance	4nF, 40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF (+ - 3.5%)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz (+ - 0.1%)
Inductance	-
Temperature	-20° Celsius to +1200° Celsius (+ - 1%)
Ave/RMS	True RMS
Input impedance	10M
Special features	Bluetooth®, Meterbox Smartphone app, data logging, IP67, bargraph, data hold/storage, triple LCD display
Dimensions	182(L) x 82(W) x 55(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1576	\$279.00	\$249.00	\$219.00

WORKBENCH EQUIPMENT SPECIALTY MULTIMETER

DIGITAL MULTIMETERS (CONTINUED)

Cat III Insulation Tester/Multimeter

- Analogue/digital display
- Data hold
- Max/min
- Moulded case
- Backlit LCD
- Auto power-off
- Requires 6 x AA batteries

BONUS

This meter includes **QUALITY** Test Leads



Commonly known as a megger and suitable for high voltage insulation testing up to 4 gigohms up to 1000V.

It also has AC/DC voltage and low resistance multimeter functions. Moulded storage case and holster included.



DMM with Network Cable Tester

- Autoranging
- LAN Cable Tester
- Diode Test
- Multimeter functions
- Audible continuity
- Case included
- LAN tester checks faults & miss wired conductors
- Manual or automatic testing

BONUS

This meter includes **QUALITY** Test Leads



This innovative device is ideal for network installers or technicians & will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, & continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, open-circuits, short-circuits, & cross-connects etc.

A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator, and multimeter leads.



Analogue Multimeter

- Holster included
- Audible continuity
- 20K Ω /Volt

BONUS

This meter includes **QUALITY** Test Leads



Digital multimeters have almost completely taken over, but there are those who prefer to use the old analogue meter - it's still the best way to test a capacitor.

This well-made meter has audible continuity and a transistor leakage test, in addition to the normal set of functions. Have a closer look at this meter.

It's a beauty.



Specifications	QM-1493	XC-5078	QM-1020
Display	4000 count	2000 count	-
Security class	Cat III 1000V	Cat III 600V	-
Basic DC accuracy	0.800%	0.500%	3.000%
DC voltage	125V, 250V, 500V, 1000V ($\pm 0.8\%$)	200mV, 2V, 20V, 200V, 600V ($\pm 0.5\%$)	100mV, 500mV, 2.5V, 10V, 50V, 250V, 1000V ($\pm 3.0\%$)
AC voltage	750V, 1000V ($\pm 1.2\%$)	200mV, 2V, 20V, 200V, 600V ($\pm 1.2\%$)	10V, 50V, 250V, 1000V ($\pm 4.0\%$)
DC current	-	2mA, 20mA, 200mA ($\pm 1.5\%$)	50uA, 2.5mA, 25mA, 250mA ($\pm 3.0\%$)
AC current	-	2mA, 20mA, 200mA ($\pm 2.0\%$)	-
Resistance	400 Ω ($\pm 1.5\%$)	200 Ω , 2k Ω , 20k Ω , 200k Ω , 20M Ω ($\pm 0.8\%$)	2k Ω , 20k Ω , 200k Ω , 2M Ω , 20M Ω ($\pm 3.0\%$)
Capacitance	-	-	-
Frequency	-	-	-
Inductance	-	-	-
Temperature	-	-	-
Ave/RMS	-	Ave	Ave
Input impedance	-	10M	10M
Special features	Insulation Resistance 4M, 40M, 400M, 4000M ($\pm 2\%$), Continuity Test, Bargraph, Backlit, Data hold, Analogue Bargraph	Data hold, max hold	dB, continuity buzzer.
Dimensions	200(L) x 92(W) x 50(D)mm	162(L) x 74.5(W) x 44(D)mm	150(L) x 100(W) x 35(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1493	\$269.00	\$239.00	\$209.00

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5078	\$84.95	\$76.45	\$67.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1020	\$29.95	\$26.95	\$23.95

CLAMPMETERS

400A AC Clampmeter

- Autoranging
- Relative mode
- Diode test
- Audible continuity
- Data hold
- Auto power-off
- Jaw opening 30mm
- Temperature probe
- Carrying case

BONUS

This meter includes QUALITY Test Leads



Our entry-level clampmeter. It has most of the features of the bigger models, such as data hold and auto power-off, but with only AC current measuring capability.



400A AC/DC Clampmeter

- Autoranging
- Relative mode
- Diode test
- Audible continuity
- Data hold
- Auto power-off
- Jaw opening 30mm
- Temperature probe
- Carrying case

BONUS

This meter includes QUALITY Test Leads



Easy one-hand operation makes this meter perfect for the working installer or tradesman. This is a quality, intermediate-level clampmeter with more than useful current ranges up to 400 amps AC and DC.



1000A True RMS AC/DC Clampmeter

- Autoranging
- Relative mode
- Diode test
- Audible continuity
- Data hold
- Min/max mode
- Auto power-off
- Jaw opening 40mm
- Temperature probe
- Carrying case

BONUS

This meter includes QUALITY Test Leads



Ideal for electrical fitters and contractors working with high currents, this meter will read up to 1000A AC or DC.

It has every feature you'll ever need in your trade.



Specifications	QM-1561	QM-1563	QM-1566
Display	4000 count	4000 count	6000 count
Security Class	Cat III 600V	Cat III 600V	Cat III 600V
Basic DCV accuracy	0.500%	0.500%	0.800%
DC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 0.5\%$)	400mV, 4V, 40V, 400V, 600V ($\pm 0.5\%$)	600mV, 6V, 60V, 600V ($\pm 0.5\%$)
AC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 1.5\%$)	400mV, 4V, 40V, 400V, 600V ($\pm 1.5\%$)	600mV, 6V, 60V, 600V ($\pm 1.5\%$)
DC current	-	40A, 400A ($\pm 2.0\%$)	600A, 1000A ($\pm 2.0\%$)
AC current	40A, 400A ($\pm 2.5\%$)	40A, 400A ($\pm 2.5\%$)	600A, 1000A ($\pm 2.5\%$)
Resistance	4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 3.0\%$)	4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 3.0\%$)	6k Ω , 60k Ω , 600k Ω , 6M Ω , 40M Ω ($\pm 3.0\%$)
Capacitance	4nF, 40nF, 400nF, 4uF, 40uF, 100uF ($\pm 2.5\%$)	4nF, 40nF, 400nF, 4uF, 40uF, 100uF ($\pm 2.5\%$)	6nF, 60nF, 600nF, 6uF, 60uF, 100uF ($\pm 2.5\%$)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 1.2\%$)	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 1.2\%$)	6kHz, 60kHz, 600kHz, 6MHz, 10MHz ($\pm 1.2\%$)
Inductance	-	-	-
Temperature	-20°C to +1000°C ($\pm 3\%$)	-20°C to +1000°C ($\pm 3\%$)	-20°C to +1000°C ($\pm 3\%$)
Ave/RMS	Ave	Ave	True RMS
Input impedance	10M	10M	10M
Special features	Data hold, non-contact voltage, relative measurement	Data hold, non-contact voltage, relative measurement	Backlight, non-contact voltage, data hold, min-max, relative measurement, bargraph
Dimensions	198(L) x 66(W) x 36(D)mm	198(L) x 66(W) x 36(D)mm	230(L) x 76(W) x 40(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1561	\$69.95	\$62.95	\$55.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1563	\$129.00	\$115.95	\$102.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1566	\$159.00	\$142.95	\$126.95

MULTIMETER ACCESSORIES

Fast Acting Cartridge Fuses

FOR USE IN MULTIMETERS

Used in many well-known multimeters including Listed by Underwriters Laboratories and certified by CSA. Fast acting fuse designed for use in circuits with high AC fault current capacity.

600V 15A (SUITS FLUKE) Cat. SF-2274
600V 1A (SUITS FLUKE) Cat. SF-2276

Spare ferrule fuses for our IP67 CAT IV rated DMMs:

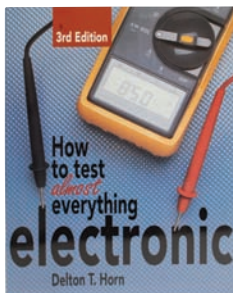
1000V 500MA Cat. SF-2278
1000V 800MA Cat. SF-2279
1000V 10A Cat. SF-2277



Size (mm)	Current	Voltage	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
32 x 6.3	0.5A	1000V	SF-2278	\$9.95	\$8.75	\$7.75
32 x 6.3	0.8A	1000V	SF-2279	\$9.95	\$8.75	\$7.75
35 x 10	1A	600V	SF-2276	\$8.95	\$7.95	\$6.95
38 x 10	15A	600V	SF-2274	\$17.95	\$15.95	\$14.35
38 x 10	10A	1000V	SF-2277	\$14.95	\$13.35	\$11.70

How to Test Almost Everything Electronic

Electronics is a unique science - everything that's going on has to be deduced from visible symptoms and effects with very little that is actually physically observable. We depend on test equipment to tell us what's really going on, and using test equipment is an essential skill in electronics. The book covers everything from setting up a test and work area to using the most important types of test equipment - multimeters, oscilloscopes, signal generators, signal tracers, capacitance meters and frequency counters. It also covers testing and measurement methods, fault finding without circuit diagrams, component testing and some highly specialised measurement in applications such as audio and TV.A comprehensive volume that should be on every technical bookshelf.



- Softcover 326 pages. 190 x 130mm

Cat.	Qty 1 +
BM-7200	\$49.95

Multimeter Carry Case

Hard wearing and good looks make this multimeter case perfect for protecting your valuable multimeter from harm. With foam lining to cushion the meter, it zips up tight guarding it from dirty, dusty conditions.

- Dimensions: 190(L) x 125(W) x 45(D)mm



Cat.	Qty 1 +	Qty 3 +	Qty 6 +
HB-6361	\$6.95	\$6.25	\$5.50

High Quality Banana Piggyback Test Leads

A set of factory-moulded piggy-back style banana plugs, each connected by one metre of high-quality, ultra-flexible 500VDC, 12A rated cable.



- Contains 2 x black, 2 x red and 1 each of blue, yellow and green leads - 7 in all

Cat.	Qty 1 +	Qty 3 +	Qty 6 +
WT-5326	\$29.95	\$26.95	\$23.95

Jumper Lead Kits

STANDARD

Ideal for connecting devices for testing. Alligator clip size is approx 40mm, jaw opening is about 8mm and cable length is approx 400mm.



- 10 leads supplied 2 of each colour.

HEAVY DUTY

This kit has large alligator clips and heavy cable. The alligator clips are approximately 50mm long, and have jaw openings of about 10mm. Cable length is approx 300mm.

- 10 leads supplied, 2 of each colour.

Cat.	Qty 1 +	Qty 10 +	Qty 50 +
Heavy Duty WC-6020	\$11.95	\$10.70	\$9.50
Standard WC-6010	\$6.95	\$6.25	\$5.35

Retractable 3m Alligator Test Lead Set

Set of 3 heavy duty leads in red, black, and green terminated with insulated alligator clips in a handy retractable reel. 3m in length, it is ideal for testing and troubleshooting electronic systems by connecting from components in machinery to test equipment or bypassing long wiring to isolate a fault.



- Rating when wound: 6A
- Rating when unwound: 10A
- Lead Length: 3m
- Reel Dimensions: 152(Dia) x 20(W)mm

Cat.	Qty 1 +	Qty 4 +	Qty 10 +
WT-5334	\$29.95	\$26.90	\$23.70

See page 101 for Breadboards and other Jumper Lead products

RELATED PRODUCTS

Probe K Type Thermocouple



This plug in thermocouple probe allows you to measure external temperature readings on DMMs. It will measure from below minus 50°C to above 250°C depending on the DMM it is used with. Suitable for gas and liquid, both with good accuracy of 0.75%.

Cat.	Qty 1 +	Qty 3 +	Qty 6 +
QM-1282	\$14.95	\$13.35	\$11.70

Wire Type K Thermocouple with Twin Banana Plugs

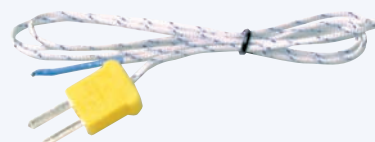


Similar to our other thermocouples, this one is fitted with banana plug terminations but does not have a 'probe' assembly. The thermocouple junction will measure over a wide range of temperature but this will depend on the DMM used.

- Typical thermocouple measurement range from as low as -50°C to over 1200°C

Cat.	Qty 1 +	Qty 3 +	Qty 6 +
QM-1284	\$11.95	\$10.70	\$9.50

Wire Type K Thermocouple



This is essentially the same as the probe type shown on this page, except that the sensor is mounted on the end of the cable - no probe. Suits digital multimeters. Measures from below minus 40°C to over 1200°C, actual range depends on the DMM its used with.

Cat.	Qty 1 +	Qty 3 +	Qty 6 +
QM-1283	\$11.95	\$10.70	\$9.50

TEST LEADS

Parrot™ Clip Leads

The Parrot™ Clip is the only test probe that provides both clip-on hands free contact as with an EZ-hook and normal point contact like a test probe. These feature a sprung hook, which is soldered directly to the lead and housed inside a round metal tube. The grip is performed between the 2 metal parts, which can be used as pincers if required. Probes are supplied with 1m leads terminated to banana plugs and are fully insulated to 1000V.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5330	\$24.95	\$22.35	\$19.70

Multimeter Probe Alligator Clips

Turn your DMM probes into clips!

- These alligator clips simply push onto the end of the test probes
- Length approximately 55mm
- Jaw opening 8mm
- Sold as a pair - 1 red, 1 black



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5220	\$3.95	\$3.45	\$3.15

16 Piece Test Lead Set

Consists of two leads with screw sockets on each end. Attachments screw in. All colour coded red and black.

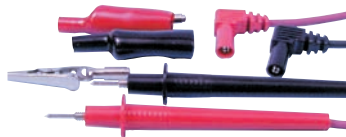
- 4 x alligator clips
- 4 x 2mm pin tips
- 4 x banana plugs
- 2 x spade lugs



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5218	\$9.95	\$8.75	\$7.75

Multimeter Test Probes Shrouded Type

- Banana plugs are right angle with 15mm covered pin.
- Alligator clips included



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5325	\$13.95	\$12.35	\$10.95

2mm Test Probes for Multimeters

- Sold as a pair



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Black/Red	PP-0425	\$3.75	\$3.30	\$2.95

Multimeter Test Probes

With 4mm right angle unshrouded banana plugs.

- Length 930mm
- Suits QM-1500, etc



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5316	\$4.95	\$4.45	\$3.90

Professional Cat IV Multimeter Probes

Professional multimeter test probes have always been an expensive choice so what we've done is work closely with a manufacturer to get great quality probes at a genuinely affordable price! There is no longer a need to settle for second best with your multimeter probes, especially if you have them in your hand almost every day.

To start with, we've made them extra long; they're 1200mm long so you don't drag your meter across your workbench as you move around a circuit and makes them perfect for bench top meters. They're Cat IV rated for safety, feature finger guards and can handle 20A of current. The best part is the actual probes themselves. To start with, the probes are suitable for inserting into a standard 4mm banana socket using the same spring hold system. Also included are probe covers which not only stop the sharp points being dangerous, they allow only just the tip to be exposed for delicate work where you can be in danger of making a short between two connections which are close together.

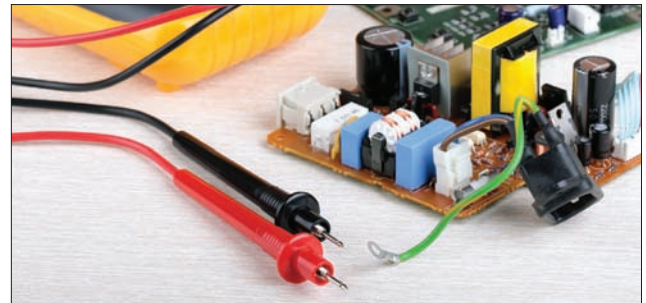
- Extra long 1200mm
- 600V Cat IV rated
- 20A current rating

Probes suitable for inserting (and holding) in 4mm banana sockets. Probe safety cover with slot for delicate work. Comfortable and ergonomic grip.

Sold as a pair.

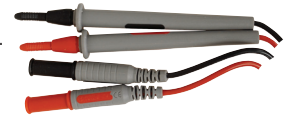


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Pair	WT-5338	\$21.95	\$19.75	\$17.75



CAT IV Test Lead Set

CAT IV Test Lead Set with straight banana plugs.

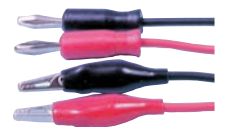


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5333	\$11.95	\$10.70	\$9.50

Test Leads

Banana plugs to clip. There are many situations where multimeter probes are difficult to use.

- Length: 700mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5320	\$5.95	\$5.25	\$4.75

SMD DMM Test Leads

Designed for measuring SMD components in-circuit. This lead set has standard 4mm banana plugs to fit any DMM. These tweezer style probes allow easy one-handed operation.

- Gold plated tips
- Lead length: 1m



↑	Cat.	Qty 1+
	WT-5302	\$2.95

EZ Hook Test Clips - 40mm

Suitable for ICs, transistors, PC pins, etc. Push syringe action. Hirshmann style.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM-3036	\$1.75	\$1.55	\$1.40
Black	HM-3037	\$1.75	\$1.55	\$1.40

IC Test Clips

These have a syringe action and are ideal for working with small components. Length 57mm.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM-3040	\$1.95	\$1.75	\$1.55
Black	HM-3041	\$1.95	\$1.75	\$1.55

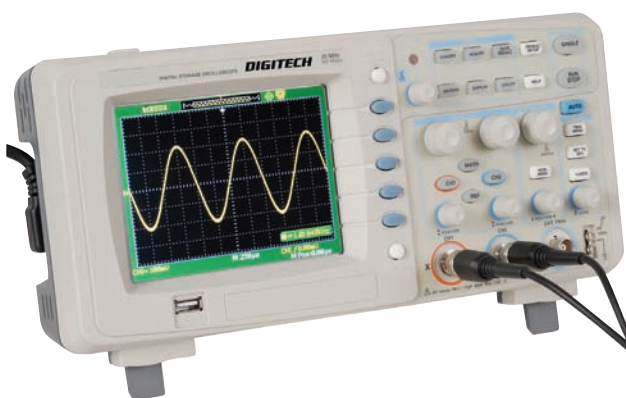
DIGITAL STORAGE OSCILLOSCOPES

Consign your CRO to the dustbin of history where it belongs and go digital. Once they were so expensive only professionals could justify buying them, they're now within the reach of anyone in the market for a dual trace scope. The advantages of a DSO gives you capabilities that simply aren't possible with any analogue

- Full 64k colour TFT display
- Compact size much smaller than an equivalent analogue CRO
- Fully portable design
- Storage memory
- USB interface
- Multiple trigger modes
- Digital filters

Your DSO can also serve as a benchtop multimeter or frequency counter. It even has an FFT function for viewing frequency domain data. Quality 10:1 probes, EasyScope software and USB cable are also included.

25MHz Dual Channel with 5.7" Screen



Ideal entry-level DSO for the advanced hobby user or technician and is particularly suited to audio work. Full data storage capabilities and USB interface so you can store traces on a flash drive. Memory depth 32k

DID YOU KNOW?

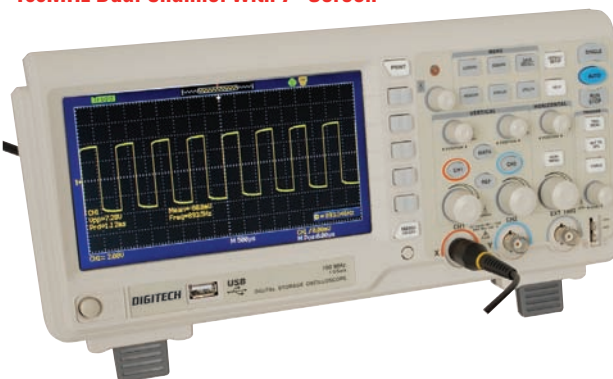
Both models include quality probes, EasyScope software and a USB cable. The QC-1934 even comes with a carry bag.

oscilloscope, including trace capture, screen capture, PC interface, storage of data on portable media, on-screen menus, mathematical functions etc. The list of features just goes on & on, suffice to say that a DSO is literally chalk and cheese when compared to an old CRO.

- Multi parameter auto measure function
- Split screen display
- On-screen menus
- Multiple language interface



100MHz Dual Channel with 7" Screen



Professional level test instrument for the technician, design engineer or development laboratory. Full 100MHz bandwidth plus a host of features including large 7" screen. Light and portable, and it even includes a carry bag.

- Digital filter function and waveform recorder function
- Pass/fail function
- Two groups of reference waveforms and 20 groups of capture waveforms
- Channel waveform and its FFT waveform on split screen
- PictBridge compatible
- Memory depth up to 2Mpts
- Armed with waveform record function. Max. 6M record data, Max. 33.3 record hours
- New trigger types, including Edge, Pulse, Video, Slope, Alternative
- Larger measurement range, Max. 10V/div
- Screen-saver enables less power-consuming, prolong product lifetime
- Double windows display enlarged waveform and original waveform simultaneously
- Multi-interfaces, enable to use GPIB function with our USB-GPIB

Specifications	QC-1932	QC-1934
Channels	2	2
Input impedance	1Mohm	1Mohm
Bandwidth	25MHz	100MHz
Sampling rate	500M Sa/sec	1G Sa/Sec (Per channel)
Input coupling	AC, DC, GND	AC, DC, GND
Max input voltage	400V P-P, Cat II	400V DC+AC P-P, Cat II
Triggers	Edge, pulse, video, slope, alt, delay	Edge, pulse, width, video, slope, alt, delay
Trigger modes	Auto, normal, single	Auto, normal, single
Mathematical operations	Add, subtract, multiply, divide, invert	Add, subtract, multiply, divide, FFT
Display modes		Main, window, window zoom, scan, X-Y
DC Accuracy	±3%	± 3%
Data Record Function	Yes	Yes
Memory Depth	32K	2mpts
DISPLAY		
Type	Colour TFT LCD 145mm	Colour TFT LCD 178mm
Resolution	320 x 234 pixels	480 x 234 pixels
Colour	64k	64k
Contrast	150 to 1	150 to 1
Graticule	8 x 12 div.	8 x 18 div.
VERTICAL		
Vertical sensitivity	2mV - 5V/div	2mV - 10V/div
Vertical resolution	8 bit	8 bit
Rise time	<14ns	<3.5ns at 100MHz
Mathematical operations	Add, subtract, multiply, divide, FFT	Add, subtract, multiply, divide, FFT
FFT	Hanning, Hamming, Blackman, Rectangular	Window mode: Hanning, Hamming, Blackman, Rectangular Sampling points: 1024
HORIZONTAL		
Range	25ns - 50s/div	2.5ns - 50s/div
Accuracy	±50ppm over 1ms	±50ppm over 1ms
OTHER		
Dimensions	310(W) x 150(H) x 130(D)mm	340(W) x 150(H) x 110(D)mm
Weight	2.4kg	2.4kg
Accessories	2 x 10:1 probes, EasyScope software, USB cable	2 x 10:1 probes, EasyScope 3.0 software, USB cable

↑	Cat.	Qty 1+	Qty 2+	Qty 5+
25MHz	QC-1932	\$689.00	\$619.00	\$549.00
↑	Cat.	Qty 1+	Qty 2+	Qty 5+
100MHz	QC-1934	\$1129.00	\$1009.00	\$899.00

HANDHELD OSCILLOSCOPES

CRO Probe - 10 : 1 / 1:1

Passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1M Ω shunted by 20pF. It may be compensated for use with instruments having an input capacitance of 15 to 35pF. The probe incorporates a three-position slide switch in the head, which selects attenuation of x1, x10 or a ground reference position. This probe suits all of the oscilloscopes in our range. Supplied with sprung hook, channel identifier clip, ground lead, insulating tip, IC tip and adjusting tool.



Specifications	Position x10	Position x1
Attenuation ratio	10:1	1:1
Bandwidth	DC to 100MHz	DC to 100MHz
Rise time	3.5ns	3.5ns
Input resistance	10M Ω when used with oscilloscopes with 1M Ω input	1M Ω (oscilloscope input resistance)
Input capacitance	14pF (approx.)	14pF (approx.)
Compensation range	10 to 35pF	10 to 35 pF
Working voltage	300VDC incl. Peak AC derating with frequency	600V DC incl. Peak AC derating with frequency
		Cable: 1.4m
		Safety Meets IEC1010-1 CAT.I

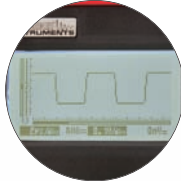
POSITION REF

Probe tip grounded via 9M Ω resistor, oscilloscope input grounded.

	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1902	\$39.95	\$35.90	\$31.90

10MHz Rechargeable Handheld Pocket Scope

- Hand held
- Rechargeable
- Durable rubber surround
- 6 hour run time
- Backlit display
- Memory storage for 2 signals
- Full auto range operation
- Includes CRO probe



A vital piece of test equipment for hobbyists, students, technicians, or designers, the Velleman HPS140 pocket scope is a complete portable oscilloscope with a tiny size. With dozens of features found on full size digital oscilloscopes you'll be amazed how they squeezed all of it into a package a little larger than a Smartphone.

It's impressive list of features include full auto range operation, input sensitivity down to 1mV, real time sample rate up to 40MS/s, and bandwidth up to 10MHz. Aside from the standard scope features it also has some nifty tools including on screen markers for measurement of amplitude and time, RMS power measurement on audio speakers from 2 to 32 Ohms, hold function for the current display, and memory storage for 2 signals which are retained even after shutdown. The unit is housed in a durable rubber surround and the screen is LED backlit for easy viewing. An in-built Ni-MH battery gives up to 6 hours of run time and can be recharged with the included USB charge cable or a 9VDC plugpack (not included use Cat. MP-3146). Supplied with 1:1:10 CRO probe and USB charge cable.

Specifications	QC-1914
Bandwidth	10MHz
Real time sample rate	40MS/s
Max input voltage	100Vp AC or DC
Input coupling	DC, AC, and GND
Timebase range	250ns to 1hr per division in 32 steps
Input range	1mV to 20V per division in 14 steps
Display size	50(W) x 25(H)mm
Display resolution	Full 128(W) x 64(H) pixels, Signal 118(W) x 49(H) pixels
Accuracy	+/-2.5%
Weight	200g
Battery	Inbuilt 4.8V Ni-MH rechargeable
Battery life	Up to 6hours
Recharge	9VDC 200mA from included USB charge cable or plugpack (available separately Cat. MP-3146)
Dimensions	114(H) x 74(W) x 29(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1914	\$369.00	\$329.00	\$289.00

10MHz/4000 Count Handheld Scope DMM

- True RMS
- Digital Oscilloscope
- USB PC interface
- PC logging software
- 128 x 128 LCD display
- LED Backlight (3 stage)
- Data hold/Min/Max recording
- Relative measurement
- 100 record memory
- Diode test
- Autoranging
- Audible continuity
- 20A current



Smartly combines a well featured digital oscilloscope and a 4,000 count True RMS digital multimeter into one versatile package, whilst also featuring a USB interface and PC software to match. Perfect for laboratory work or for technicians working in the field, with more features than you can jab a probe at.

DSO Specifications	QM-1577
Simulation bandwidth	DC 10MHz
Vertical resolution	8 bits
Vertical sensitivity range	50m V/div - 200V/div
Vertical amplitude precision	+/- (5% + 0.1div)
Automatic zero reference	In DC/dB measurement
Trigger level	+/- 12 div (at each step 0.1 div)
Max real-time sampling rate	50Msps
Nonlinearity	+/- 1 bit
Coupling	DC/AC/GND
Indexing	Vertical +/- 4.0, horizontal 12.8
When range	0.20us/div - 20s/div
Accuracy	+/- (0.01% + 0.1div)
Scanning mode	Auto/normal/single
Trigger slope	Rising along/down along

DMM Specifications	
Display	128 x 128 graphic LCD (4000 count)
Security class	Cat III 1000V
Basic DCV accuracy	0.75%
DC voltage	400mV, 4V, 40V, 400V (+/-0.75%), 1000V (+/-1.5%)
AC voltage	400mV, 4V, 40V, 400V (+/-1%), 1000V (+/-1.5%), 50Hz-1kHz
DC current	40mA, 400mA, 4A, 20A (+/-1.2%)
AC current	40mA, 400mA, 4A, 20A (+/-1.5%), 50Hz-1kHz
Resistance	400R, 4K, 40K, 400K, 4M (+/-1%), 40M (+/-3%)
Capacitance	51.2nF, 512nF, 5.12uF, 51.2uF, 100uF (+/-2%)
Frequency	5.12Hz-5.12MHz (+/-1%)
Inductance	
Temperature	
Ave/RMS	True RMS
Input impedance	10M
Special features	USB/PC interface, graphic display
Dimensions	186(L) x 86(W) x 32(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	QM-1577	\$579.00	\$519.00	\$459.00



Workbench sent to us by: Julian Jaycar Store: Sydney City

Working on a DIY battery powered audio project!

For more details, visit:
www.jaycar.com.au/workbench

WORKBENCH EQUIPMENT FUNCTION GENERATOR & DATA LOGGERS

FUNCTION GENERATOR

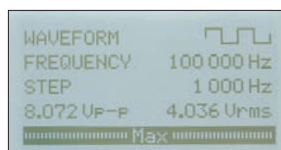
Handheld 1MHz Function Generator

Finally, a signal generator with the features of a bench top generator and a portable size! The Velleman HPG1 pocket signal generator will produce accurate test signals at frequencies from 1Hz all the way to 1MHz yet it is only a little bigger than a smartphone.

Easy to use, the pushbutton controls allow you to quickly set up generation of sine, square, and triangle waveforms with adjustable frequency and amplitude. The backlit LCD screen shows the current waveform and frequency settings. Frequency changes are in variable steps from 1Hz to 10kHz allowing you to change settings at your preferred speed. For more advanced testing it also has a frequency sweep mode to shift between two frequencies using a linear or logarithmic scale over an adjustable period. Signal amplitude is indicated by a handy slider bar with the output level also displayed in dBm and Vrms or Vpp (depending on waveform). An inbuilt Ni-MH battery gives up to 6 hours of run time and can be recharged with the included USB charge cable or a 9VDC plug pack (not included use Cat. MP-3146). Supplied with USB charge cable, BNC to RCA adaptor, and BNC to binding post adaptor.



Specifications	QT-2304
Digital to analogue converter resolution	10 bits
Frequency range	1Hz to 1MHz
Frequency steps	1Hz, 10Hz, 100Hz, 1kHz, 10kHz
Waveforms	Sine, square and triangle
Maximum output voltage	8Vpp
Sweep modes	Linear or logarithmic, single or bidirectional
Sweep period	0.01Hz to 100Hz
Dimensions	114(H) x 74(W) x 29(D)mm
Display size	50(W) x 25(H)mm
Display resolution	128(W) x 64(H) pixels
Weight	200g
Battery	Inbuilt 4.8V Ni-MH rechargeable
Battery life	Up to 6hours
Recharge	9VDC 200mA from included USB charge cable or plug pack (sold separately use Cat. MP-3146)



	Cat.	Qty 1+	Qty 2+	Qty 5+
	QT-2304	\$299.00	\$269.00	\$239.00

USB TEMPERATURE/HUMIDITY DATALOGGERS

A must for anyone involved with food preparation, archiving or storage or applications where storage of environment information is important. These USB dataloggers log temperature and humidity readings and store them in internal memory for later download to a PC. The measurement interval is adjustable - you simply set up the

Two models available with mounting bracket and software included:

Direct Plug In Type

- Easy USB interface
- Mounting bracket included
- 32000 sample memory (16000 temp, 16000 humidity)
- Software compatible with Windows 2000, XP, Vista



Specifications	QP-6013
Range	-40 - 70°C (-40 - 158°F), 0 - 100% relative humidity
Accuracy	Humidity $\pm 3\%$, Temperature $\pm 1^\circ\text{C}$
Resolution	Humidity 0.1%, Temperature 0.1°C
Memory	3200 samples
Battery life	5 sec rate: 12 months, 10 sec rate: 2.5 years
Dimensions	100(L) x 22(W) x 20(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-6013	\$119.00	\$106.95	\$94.95

recording parameters then download the data when you need it. The data is recorded at the prescribed intervals and will alert you if preset min/max levels are exceeded. Countless applications including greenhouses, museums, warehouses, container storage, photography, archives, food preparation etc.

USB / LCD Readout Type

- 32,700 sample memory
- Adjustable measurement cycle
- Analysis software included
- Software compatible with Windows 2000, XP, Vista



Specifications	QP-6014
Range	-40 - 70°C (-40 - 158°F), 0 - 100% relative humidity
Accuracy	Humidity $\pm 3\%$, Temperature $\pm 1^\circ\text{C}$
Resolution	Humidity 0.1%, Temperature 0.1°C
Memory	32,700 samples
Measurement cycle	1s - 24h
Dimensions	95(H) x 50(W) x 32(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-6014	\$149.00	\$133.95	\$118.95

Workbench sent to us by: Don Jaycar Store: Mt Wellington NZ

Clutter Central! Circuits are designed using Diptrace and are manufactured by PCBWay in China. My current project is a Flash & Camera Trigger V7.

The Board contains a number of sub circuits for: a variable delay or instant circuit with variable timeout, various circuits such as: a sound trigger, two Schmitt triggers for slow objects (like drips), a transistor trigger for fast objects (like bullets) beam or sensor auto on/off. Each sensor circuit can be pre-tuned for two different input sensors allowing for up to eight different pre-tuned sensors. Output is opto-coupled to protect the flash or camera

Also shown in the background is a Continuity Checker with variable tone and volume. Continuity can be set at 2.5, 5, 10, 20, 35, 40 Ohms or a custom user set Ohms. Really handy for those whose hearing is not what it used to be or who want to QC their soldering rather than accepting the typical 35 - 40 Ohms continuity pass of a Multimeter.

For more details, visit:
www.jaycar.com.au/workbench



NON-CONTACT THERMOMETERS

Economy Non-Contact Thermometer

- Built-in laser pointer
- Wide temperature range
- 8:1 Distance to spot ratio
- Auto data hold
- Carry case included



Safely measure temperature in hard to reach places, hot or hazardous areas using the built-in laser pointer to target the surface. Compact and easy to use, the thermometer can provide several readings within seconds.

Backlighting illuminates the LCD display for taking measurements at night or in low light areas.

Carry case included.



Specifications	QM-7215
Display	3 digit
Optical resolution	8:1
Temperature	-30°C to +260°C (-22° to +500° F)
Emissive	Fixed to 0.95
Sampling rate	< 1s
Special features	Built-in laser pointer, automatic data hold, backlight, min / max record, over range indicator
Battery	1 x 9V
Dimensions	131(H) x 96(W) x 35(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7215	\$59.95	\$53.95	\$47.95

Non-Contact Thermometer with Dual Laser Targeting

- Laser pointing targeting
- Wide temperature range
- 12:1 Distance to spot ratio
- Backlit LCD
- Holster Included



Measure the temperature of any surface from a safe distance with this compact sized non-contact thermometer. With a wide temperature range and laser targeting, this portable instrument is easy to use for quick and accurate temperature checking of any surface.

With a 12:1 distance to spot size, you can get the temperature of almost the exact spot in most cases.

With the backlight, the temperature can be read in low light conditions.



Specifications	QM-7221
Display	3.5 digit
Optical resolution	12:1
Temperature	-50°C to +650°C / -58°F to +1202°F (±1%)
Emissive	Adjustable 0.10 to 1.0
Sampling rate	6.7Hz
Special features	Dual laser targeting, dual display, automatic data hold, backlight, trigger lock, max hold, high/low alarm
Battery	1 x 9V
Dimensions	146(L) x 104(W) x 43(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7221	\$139.00	\$124.95	\$110.95

Professional High Temperature Non-Contact Thermometer

- Wide temperature range
- 30:1 distance to spot ratio
- Backlit LCD
- Auto data hold
- Professional grade
- Moulded carry case



This professional infrared thermometer allows you to measure high temperatures with safety. With a range of -50 to 1000° Celsius, it's suitable for lab, furnace, forge and small-scale foundry work. The laser pointer allows for accurate placement of the measurement point and the 30:1 distance-to-target ratio allows for accurate measurement from greater distances. The unit can be mounted on a tripod with trigger lock for unattended min/max logging.

• Supplied in a robust blow-moulded case



Specifications	QM-7226
Display	4.5 digit
Optical resolution	30:1
Temperature	-50°C to +1000°C / -58°F to +1832°F (±1.5%)
Emissive	Adjustable 0.10 to 1.0
Sampling rate	1Hz
Special features	Laser targeting, automatic data hold, dual display, backlight, trigger lock, min / max / dif / avg record, high / low alarm.
Battery	1 x 9V
Dimensions	230(L) x 120(W) x 56(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7226	\$249.00	\$223.95	\$198.95

TECH TALK!

DISTANCE TO SPOT RATIO EXPLAINED

Distance to spot ratio is the ratio of the distance of the Thermometer to the object being measured, and the diameter of the temperature measurement area. The larger the ratio number the better the resolution.

Workbench sent to us by: Clifford Jaycar Store: Ipswich

I am in the last year of an Electrical Engineering Degree and this is my mess.

I am also 52 years old so not the typical student. I already have a place in mind for the 3D printer as it would be a great addition to my workshop

For more details, visit:
www.jaycar.com.au/workbench



WORKBENCH EQUIPMENT

TEMPERATURE MEASUREMENT

NON-CONTACT THERMOMETERS (CONTINUED)

Mini Non-Contact IR IP67 Thermometer

- Batteries and lanyard included

Ultra compact, non-contact thermometer. IP67 rated so is ideal for industrial and lab applications. LCD readout gives temperature in Celsius or Fahrenheit.



Specifications	QM-7218
Temperature	-33 to +110°C (-27 to +230°F)
Accuracy	2.5°C
Distance to spot ratio	1:1
Response time	1 second
Size	82(L) x 17(Dia)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7218	\$34.95	\$31.45	\$27.95

Digital Thermometer with K-Type Thermocouple

- LCD
- Pocket Size
- Wide Temperature Range
- Thermocouples & Battery included

A handy pocket-size digital thermometer, suitable for the lab, workshop or in the field. It features an excellent measurement range from -50 to 750°C and a hold function to lock the reading on the display.



Specifications	QM-1602
Display	2000 count
Temperature	-50°C to +750°C (±1%)
Sampling rate	2.5Hz
Special features	Data hold
Battery	1 x 9V
Dimensions	118(L) x 70(W) x 29(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1602	\$39.95	\$37.45	\$31.90

PROBE THERMOMETERS

LCD Probe Thermometer

- Pocket clip
- Stainless steel probe
- 150mm long



Multi-purpose digital thermometer for the kitchen, lab, factory, workshop or barbecue. It measures in Celsius and Fahrenheit and fits in a pocket.

Specifications	QM-7314
Temperature	-50 - 120°C, -58 - 248°F
Accuracy	+/-1°C
Length	150mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7314	\$10.95	\$9.85	\$8.75

Digital Stem Thermometer

- Requires LR44 battery (included) / 5000 hour battery life
- 205mm long



Endless applications such as food processing, laboratory work, photography, home brewing etc. this digital thermometer features fast response, min/max memory, data hold and automatic shut-off after 10 minutes. The probe is stainless steel, so it will never corrode, the body is splashproof and it will never need calibration.

Specifications	QM-7216
Temperature	-50 - 200°C / -58 - 392°F
Accuracy	±1°C, ±2°F
Display resolution	0.1°
Sampling rate	Every 0.7 seconds



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7216	\$29.95	\$26.95	\$23.95

Thermocouple Thermometer - 2 Input

- Auto power off
- Backlit LCD
- Max and hold function
- Celsius & Fahrenheit
- Holster included
- Thermocouples included

Fast response and laboratory accuracy, works with K-type thermocouples and offers 0.1 or 1° user-selectable resolution over the entire measurement range. You can monitor two separate temperatures or use the differential function to compare them.



Specifications	QM-1601
Display	2000 count
Temperature	-50°C to 1300°C (-58°F to 2000°F)
Special features	Backlight, data hold, max hold
Battery	1 x 9V
Dimensions	172(L) x 84(W) x 42(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1601	\$94.95	\$85.45	\$75.95

FRIDGE THERMOMETERS

Digital Fridge/Freezer LCD Mini Thermometer

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet. Stylish design with white face and silver colour surround.



Specifications	QM-6323
Selectable	°C / °F
Digit height	23mm
Temperature range	-19°C to 49°C
Batteries	1 x CR2025 included
Dimensions	68(L) x 44(H) x 12(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-6323	\$9.95	\$8.75	\$7.75

Digital Thermometer for Fridge or Freezer

Keep your fridge at the right temperature all year round. Simply attach the sensor to the desired position in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed Velcro strip. Set your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem.



- No more spoiled food ever again.
- Shows room temperature at the touch of a button as well

Specifications	QM-7209
Room temp range	-10 to 50°C
Fridge temp range	-50 to 70°C
Display size	26(W) x 13(H)mm
Fridge sensor cord	1m
Requires	1 x AAA battery (supplied)
Dimensions	67(W) x 39(H) x 15(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7209	\$24.95	\$22.45	\$19.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!



Sign-up in-store or online.

*Conditions apply. See page 7 for details

SOUND LEVEL METERS

Micro Sound Level Meter

- Very compact size
- Min / max hold
- Backlit



BONUS

Digital for an analogue price!

With a range of 40 - 130dB, this little meter is ideal for environmental, safety and sound system testing. It has a fast response time for transient measurements and is A-weighted for the frequency range of human hearing.

- Extremely small and price matches its size.



Specifications	QM-1591
Display	3 digit
Range	40 - 130dB (± 3.0 dB)
Frequency range	31.5Hz to 8kHz
Weighting	A weighted
Special features	Pocket sized, min / max hold, backlight
Battery	1 x 9V (included)
Dimensions	128(L) x 51(W) x 32(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1591	\$49.95	\$44.95	\$39.95

Compact Digital Sound Level Meter

- Compact size
- Data hold
- Backlit
- Carry case



Featuring a wide dynamic range from 30 to 130dB, it can measure both A and C weightings to get the right response for the human ear and can have fast or slow responses to get an "ambient" reading or a short noise. Includes data hold and min/max functions, as well as tripod mount for prolonged use. Great for car audio installers, clubs and PA.

- Supplied with carry case and wind sock.



Specifications	QM-1589
Display	3.5 digit
Range	30-130dB (± 1.5 dB)
Frequency range	31.5Hz to 8kHz
Weighting	AC selectable weighting
Response	Fast / slow selectable
Special features	Max hold, data hold, backlight
Battery	1 x 9V
Dimensions	210(L) x 55(W) x 32(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1589	\$129.00	\$115.95	\$102.95

Pro Sound Level Meter with Calibrator



- Compliant with Type 2 (Class 2) Standards
- A & C weighting scales
- Fast and slow response
- Tripod mounting thread
- External calibrator (included)
- Maximum hold feature
- Min/Max measurement
- AC & DC analogue outputs
- Tripod included
- Backlit LCD



TECH TALK!

Approved Type 2 (Class 2)

DID YOU KNOW?

This meter conforms to IEC 61672-1 Class 2 for sound level meters.



Suitable where accuracy, repeatability or validation is required. This sound level meter also includes a calibrator so you can verify and authenticate your results. Scales for A and C weighting are included so it is ideal for vehicle noise testing, race scrutineering, traffic or aircraft noise testing or any evidence-based noise testing. Rugged and easy to operate for the garage environment, it also has both AC (1Vrms representation of the meters waveform) and DC (10mV/dB) analogue outputs so you can connect it to other equipment such as data-loggers, plotters, oscilloscopes etc.

Specifications	QM-1592
Display	3.5 digit
Accuracy	± 1.4 dB
Calibration	94, 114dB
Dynamic range	50dB
Resolution	0.1dB
Update	Every 0.5 seconds
Frequency range	31.5Hz - 8kHz
Dimensions	278(L) x 76(W) x 50(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1592	\$379.00	\$339.00	\$299.00

CABLE TESTER

Roadies Cable Tester

Simply plug the cable under test and turn the rotary switch. The LED array gives you an instant go/no-go status of each conductor path in the cable. With bullet-proof all-metal construction, it's ideally suited to the ruff and tumble world of rock 'n' roll, but is also suitable for any technician working with cables. Faster and much easier than a multimeter. Requires 1 x 9V battery. (use SB-2423)

Tests the following cables:

- Speakon 4, 8P
- 1/4" mono & TRS
- DIN 3, 5, 7, 8P
- XLR 3, 5P
- Phono (RCA)
- USB
- RJ45
- Dimensions:

190(L) x 98(W) x 35(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0405	\$64.95	\$58.45	\$51.95

WORKBENCH EQUIPMENT ENVIRONMENT MONITORING

LIGHTMETERS

Digital Lightmeter

- LCD
- 3.5 Digit
- 4 Ranges
- 0.01 to 50,000 Lux
- Carry Case
- Separate Photo Detector



A handy digital lightmeter for photography, lab work, architectural, engineering and construction applications. It includes an integrated stand and will measure incident light in 4 ranges.



The photo detector is wired on a curly cord which extends to 1 metre, allowing the user to take light measurements at the optimum position. Sensor cover included.

Specifications	QM-1587
Display	2000 count
Range	200, 2000, 20000, 50000 lux/Fc
Accuracy	±5% ±10d (<10,000lux) ±10% ±10d (>10,000lux)
Resolution	0.1lux/Fc
Sampling rate	1.5Hz
Special features	Data hold, max hold
Battery	1 x A23 (12V)
Dimensions	188(L) x 64(W) x 24.5(D)mm
Photo detector	115(L) x 60(W) x 27(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1587	\$59.95	\$53.95	\$47.95

Professional Digital Light Meter

- Data hold
- Relative mode
- Auto zeroing
- Long-life silicon photo diode sensor
- Selectable Lux or fc scale
- Auto power off: 30 minutes
- Max and min measurements



Light has an enormous impact on the atmosphere created in a room, office, foyer, retail shop, reception areas, or on film and photography. In some cases, a professionally lit servicescape may be the difference between business success and failure. Achieving the right amount of light is a fine art, and the help of a professional tool should be sought to ensure minimum lighting level standards are achieved. This professional light meter is brimming with features that should be part of every lighting technician's arsenal. It uses photopic spectral sensitivity which closely mimics the response of the human eye to changes in light. It is extremely accurate with a rapid response and can store min and max values for easy comparisons. Measurement can be switched between LUX and FC (foot candles) and a data hold function is included for pausing the reading. All this is output to an easy to read backlit LCD. A carry plastic case with handle is included for easy and safe transportation.

Specifications	QM-1584
Display	4,000 count with 41 segment bargraph
Max measurement	400,000lux / 40.00 kfc
Spectral response	CIE Photopic
Spectral accuracy	CIE VA function f1 <=6%
Cosine response	f2 <=2%
Accuracy	+/-5% +/-10d (<10,000 lux), +/-10% +/-10d (>10000 lux)
Accuracy for C.I.E. standard illuminance	A(2856K)
Sampling rate	1.5 times/second

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1584	\$169.00	\$151.95	\$134.95

LASER DISTANCE MEASURING

Professional Laser Distance Meter

- LCD
- 35m



A professional grade laser distance meter brimming with features. It allows you to easily measure the distance between two points, it can calculate the area of a rectangle or the volume of a cube with ease. You can measure the height of a wall thanks to the inbuilt Pythagoras calculator. Measurements can be added or subtracted from each other using the plus and minus buttons.

- Carrying pouch included

Specifications	QM-1622
Measurement range	0.05 to 35m
Accuracy	±1.5mm
Smallest unit displayed	1mm
Measuring units	m, in, ft
Laser class	Class II 635nm < 1mW
Batteries	Requires 2 x AAA
Rating	IP54
Measurement records	20
Dimensions	110(L) x 45(W) x 27(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1622	\$179.00	\$160.95	\$142.95

OTHER TEST EQUIPMENT

Pocket Moisture Meter - Wood, Building & Plasterboard etc.

This is an intelligent wood moisture meter suitable for measuring water content in building materials and wooden fibre articles such as wooden and bamboo objects, cotton, paper etc. Simple to use, the unit comes with two-pin electrode which enables you to check thick wood at the core without having to cut it open. A must have for home/building inspectors, flooring specialist and general contractors. Carry case included.

- Backlit digital LCD screen
- Ergonomically designed with comfortable finger grip
- Wide measurement scope (6% to 44%)
- Low power consumption
- Auto power off



Specifications	QP-2310
Electrode length	8mm
Measuring range	Wood: 6 to 44%, Material: 0.2 to 2.0%
Accuracy	Wood: +/-2%, Material: +/-0.2%
Ambient temperature	0 to +40°C
Ambient humidity	0 to +85%RH
Battery	4 x LR44 (included)
Dimensions	96(H) x 40(W) x 20(D)mm
Weight	83g



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2310	\$34.95	\$31.45	\$27.95

Hand Held pH Meter

A simple and accurate device for checking pH levels in water. The unit is equally valuable for keeping your fish tank at the proper pH level for optimum fish health or checking your swimming pool for the right balance. The meter is simple to use and the large liquid crystal display gives clear and precise readings that are much more accurate than messy chemicals. The unit has an extendable probe that can be adjusted to suit each application. The meter is supplied with a 9 volt battery, a bottle of pH 7.0 buffer solution and calibration tool.

Specifications	QM-1670
Range	1 - 14 pH
Resolution	0.1 pH
Accuracy	±0.2 pH
Operating temperature	0° - 50°C
Weight	120g
Dimensions	40(W) x 158(H) x 34(D)mm



⬆	Cat.	Qty 1 +	Qty 3 +	Qty 6 +	
	pH Meter	QM-1670	\$64.95	\$58.50	\$51.95
	Buffer Solution (50ml)	QM-1671	\$8.95	\$7.95	\$6.95

VERNIER CALIPERS

Budget 150mm Digital Vernier Calipers

This carbon composite digital caliper is ideal for general use and situations where the cost of our precision stainless steel tool isn't justified. The digital display is calibrated in imperial and metric units with a corresponding vernier scale etched onto the caliper slide. While we wouldn't recommend you use this caliper to build the Space Shuttle, it's perfectly suited to the home handyman who finds traditional calipers hard to read.

- 150mm measurement range
- 0.1mm resolution
- 8.3mm LCD character height
- 245mm Overall length (closed)
- Internal and external jaws
- Includes battery



	Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2081		\$13.95	\$12.35	\$11.15

150mm Digital Vernier Calipers

This precision instrument is made out of surgical grade stainless steel. It features a 5 digit LCD and will show readings in metric - 3 significant figures plus 2 decimal and in imperial - 2 significant figures and would you believe 3.5 decimal. (The fourth figure is either 0 or 5). The caliper can be zeroed at any point on the scale. A quality product at a fabulous price. Supplied with a sturdy clip-lock case with foam retainer and provision for spare battery.

- 0 - 150mm (0-6") range
- Resolution 0.01mm / 0.0005" (repeatability same)
- LR-44 battery powered (supplied)
- Battery life 12 months nominal
- Auto power off
- Thumbscrew slide damper
- Converts millimeters to inches and vice versa
- Case dimensions 250(L) x 90(W) x 27(D)mm



NERD PERKS
2x POINTS

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2082		\$39.95	\$35.90	\$31.90

STUD DETECTORS

3 in 1 Stud Detector with LCD Screen

Survey your wall with ease by sliding this handheld detector along the surface. With separate modes to sense wall studs, mains cables, and metal items this handy device allows you to locate and mark items hidden within a wall before cutting or drilling. Object detection is indicated by a buzzer and on the LCD screen, with the screen display including a numerical and barograph reading of the detection intensity. With repeated sweeps of a wall section you can use the screen reading to get the precise location of the detected item.

- Automatic calibration
- Requires 9V battery
- Dimensions: 150(H) x 67(W) x 28(D)mm



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
QP-2283		\$29.95	\$26.95	\$23.95

3 in 1 Stud Detector with Laser Level

Stud detectors have been around for a long time but sometimes one appears which becomes a definite buy for any serious handyman. This model is one of those! Featuring a stud detector which just doesn't "beep" when you're over the stud, it shows the proximity when you are NEAR a stud via the large LCD and shows a target graphic when you're spot on. Also featuring live wire (voltage) detection, you can be sure than nail you're about to hammer into the wall won't end up in your mains wiring. The best feature of all is the built in laser level. Rotating across 180 degrees with stops on 45 and 90°, you can instantly and easily do layouts and basic tasks such as picture levelling in a snap. The inbuilt spirit level ensures you're at the right angle.

- Laser levelling, layout and stud locating on vertical and horizontal surfaces.
- Wood, metal and live wire detection.
- 180° pivoting laser plane with level and plumb vials
- 20' laser line projections onto work surface with 90° squaring
- Two self contained half pins to mount unit to work surface
- LCD sensing and mode display with target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for levelling the laser
- Easy keypad operations and comfortable grip
- Powered by 9V Battery (included)
- Size: 180(H) x 67(W) x 38(D)mm



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
QP-2288		\$64.95	\$58.45	\$51.95

WEIGHING SCALES

Digital Luggage Scale

Some budget airlines are now charging \$60 (yes, \$60!) per kilo for excess baggage, and reducing the allowance to as little as 15kg. If you're going travelling, especially anywhere in Europe, an accurate luggage scale should be considered an essential. It costs less than a third of a kilo of Ryanair excess baggage charges and the scale itself weighs only 160g. It also takes two common AAA batteries you can get anywhere in the world.

- Capacity: 40kg
- Backlit LCD
- Tare and auto-off
- Overload and low battery indication
- Size: 122(L) x 85(H) x 25(W)mm



Luggage not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
QM-7232		\$24.95	\$22.45	\$19.95

100g Mini-Pocket Scale

Truly pocket-size scales. Ideal for laboratory, diets, clinical, jewellery or lapidary work. They'll measure up to 100 grams with excellent resolution and weigh in grams, carats, pennyweight or ounces. 1 x CR2032 battery included.

- 60 second auto power-off
- Tare function
- 0.01g resolution
- Dimensions: 72(L) x 40(W) x 10(D)mm



BEST SELLER

	Cat.	Qty 1+	Qty 3+	Qty 6+
100g	QM-7258	\$49.95	\$44.90	\$39.90

200g Mini-Scale with Backlight

Extremely accurate mini scale suitable for a variety of applications. The large LCD is backlit and a 200g calibration weight is included. Resolution is 0.01g and it weighs in grams, carats, ounces and pennyweight.

- 2 x AAA batteries included
- Dimensions: 93(L) x 52(W) x 20(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
200g	QM-7259	\$69.95	\$62.95	\$55.95

1kg Digital Bench Scale

Precision 1kg electronic scale with resolution of 0.01g for when a high degree of accuracy is required. Weighs in grams, ounces, pounds, grains, carats, troy ounces and also supplied with a wind shield and a built-in bubble level to provide maximum accuracy. Particularly suited to calculating quantities as it counts pieces by weight. Powered by 4 x AA batteries (not included) or mains adaptor. Suitable for kitchen, lapidary, jewellery, reloading etc.

- Auto power-off after 60 seconds
- Automatic calibration
- Backlit LCD
- Tare and counting function
- Mains powered
- Dimensions: 175(W) x 75(H) x 260(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
1kg	QM-7264	\$179.00	\$160.95	\$142.95

COUNTERS

Handheld/Desktop Mounted Tally Counter

This tally counter is ideal for checking attendance numbers at large events, counting inventory or making sure your participant numbers are correct. Made from chrome plated aluminium, it is easily removed from its base to comfortably fit into the palm of your hand. The base can also be mounted on a desk or other surface for convenience. A gentle push of the thumb counts from 0-9999. To reset the counter, just wind the knob back to 0000.

- 60(H) x 57(D) x 57(W)mm

TECH TALK!
Removable Base
For Handheld Use



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TC-2500	\$12.95	\$11.35	\$10.35

WORKBENCH EQUIPMENT ENVIRONMENT MONITORING & INSPECTION EQUIPMENT

ENVIRONMENT SENSORS

Plug-in Environment Sensors for Smartphones with APP

Turn your Smartphone into a pocket environment meter. Choose between four plug-in sensors that plug into the Smartphone's earphone socket to measure radiation, UV index, electromagnetic fields or temperature & humidity. By using a free downloadable APP for your iOS® and Android® device, you can see real time measurements or trigger an alarm when a pre determined measurement is reached. Intended for domestic use and readings, should only be used as a guide.

PLUG-IN GEIGER MODULE FOR SMARTPHONES - CAT. QM-1676

Measures radiation coming out from a radioactive substance in dose-rate figure (uSv/h) and sound an alarm at a preset level.

Specifications	QM-1676
Measurements	Gamma, X-ray
Measuring range	0.1-200uSv/h
Measurement error	< ±15%
Operating temperature	10-40°C
Dimensions	47(L) x 10(Dia.)mm, 6g



Note: Smartphone not included



PLUG-IN UV MODULE FOR SMARTPHONES - CAT. QM-1677

Returns the UV index and power. Set the UV Index alarm to remind you to put on some sun block.

Specifications	QM-1677
Measurements	UV (Ultraviolet)
Range	240 - 380nm
Detects	UVA, UVB
UVI (UV Index) range	0 - 12
UV Power	0 - 6mW/cm2
Measurement error	± 10%
Workable temperature	-20 - 50°C
Workable humidity	< 80%
Sensor type	Semiconductor sensor
Dimensions	30(L) x 10(Dia.)mm, 6g



PLUG-IN ELECTROMAGNETIC SENSOR FOR SMARTPHONES - CAT. QM-1678

Measures the electromagnetic waves around on your Smartphone in V/m (Volt/Metre) in real time.

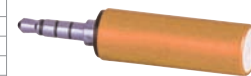
Specifications	QM-1678
Measurements	Electromagnetic field (EMF)
Minimum response	1V/m
Range	1 - 2,000V/m
Frequency	16Hz - 100kHz
Dimensions	30(L) x 10(Dia.)mm, 6g



PLUG IN TEMPERATURE AND HUMIDITY SENSOR FOR SMARTPHONES - QM-1679

Take temperature and humidity readings inside or out.

Specifications	QM-1679
Measurements	Temperature & humidity
Temperature range	-40°C to 120°C
Temperature step	0.1°C
Temperature error	±0.5°C
Temperature measure time	15sec
Humidity range	0 - 100%
Humidity step	1%
Humidity error	±2.5%
Humidity measure time	10sec
Dimensions	30(L) x 20(Dia.)mm, 10g



Note: Colours may vary to ones shown



	Cat.	Qty 1+	Qty 3+	Qty 6+
Geiger Module	QM-1676	\$34.95	\$31.45	\$27.90
UV Module	QM-1677	\$34.95	\$31.45	\$27.90
Electromagnetic Sensor	QM-1678	\$34.95	\$31.45	\$27.90
Temperature and Humidity Sensor	QM-1679	\$39.95	\$35.95	\$31.95

INSPECTION CAMERAS

USB Mini Inspection Camera with 1.5m Flexible Cable

Inspect areas your head or hands simply can't fit into and your limited humans eyes can't see. Ideal for finding dropped screws/bolts, seeing inside car engine bays, checking inside pipes, under grates, up rangehoods, in ceilings, and much more. This unit comes with three brilliant add-ons, a hook, a magnet, and a 45 degree mirror that can be attached to the end of the camera to help you retrieve those important bits. There are 4 white LEDs at the front of the camera that can have their brightness adjusted with a dial fused onto the cable. With the supplied software you can also capture video and images for playback at a later date. Requires no batteries, just connect to your laptop and start viewing.

- Water resistant camera head and cable
- 4 White LED Lights (brightness adjustable)
- Compatible with Windows XP, Vista, 7, 8 & 10

Specifications	QC-3373
Flexible cable neck diameter	5mm
USB cable	USB2.0
Camera head outer diameter	10mm
Resolution	640x480
Lens view angle	54 degrees
Focal distance	6cm-infinite
Frame rate	up to 30fps @ 640x480
Length	1.5m



	Cat.	Qty 1+	Qty 2+	Qty 4+
1.5m	QC-3373	\$44.95	\$40.45	\$37.95

USB Mini Inspection Camera with 7m Flexible Cable

A water resistant inspection camera with a massive flexible 7m cable so it will remain rigid allowing you to probe into all sorts of areas. A magnet, hook, and 45 degree mirror attachment are included to enhance the cameras ability to retrieve impossible to get bolts, or other pieces of equipment. Just plug it into your laptop and view the camera live, record videos, and take snapshots for later use.

- Water resistance camera head and cable
- 4 white LEDs (brightness adjustable)
- Compatible with Windows XP, Vista, 7, 8, 10

Specifications	QC-3374
Camera head outer diameter	10mm
Resolution	640 x 480
Lens view angle	54°
Focal distance	6cm-infinite
Frame rate	Up to 30fps@640x480
Length	7m



	Cat.	Qty 1+	Qty 2+	Qty 4+
7m	QC-3374	\$74.95	\$67.45	\$63.45



Workbench sent to us by: Barry Jaycar Store: Penrith

It is my solace, where I can find the solution to almost any challenge the wife and kids throw my way, from fixing an appliance to building a control panel. A 3D printer would allow me to bring ideas to reality.

For more details, visit: www.jaycar.com.au/workbench

RELATED PRODUCTS

FROM
\$9.95
PP-2142



ALTERNATOR BATTERY MONITOR P507

FROM
\$64.95
QM-1494



MULTIFUNCTION AUTO TESTER P507

FROM
\$79.95
QM-1448



DIGITAL TACHOMETER P507

FROM
\$16.95
QP-2212



AUTO TESTER P507

INSPECTION CAMERAS WITH MONITORS

Inspection Camera with 2.4" LCD

With a camera diameter of only 9mm, detailed inspection of some very tight spots is possible. Its comfortable grip and forward facing controls make it easy to detect and diagnose the inaccessible. 9mm camera head for up-close visual inspections in tight spaces. Requires 4 x AA batteries.

- Forward facing controls
- Adjustable brightness LED illuminator
- Adjustable LCD brightness



Specifications	QC-8710
Sensor	CMOS
Display	2.4" colour LCD
Resolution	480 x 234 pixels
Reach	1m
Attachments	Mirror, hook & pick-up magnet



⬆	Cat.	Qty 1+	Qty 2+	Qty 4+	
	Inspection Camera	QC-8710	\$149.00	\$133.95	\$118.95
	Extension Shaft 2m	QC-8702	\$79.95	\$71.95	\$67.95

Inspection Camera with Record & Detachable Wireless Screen

With a 9mm diameter and four LEDs, the head of this inspection camera can capture video and pictures in confined and dark locations. The head and flexible boom being IP67 rated enables them both to be submerged in water during operation (however the base unit and LCD cannot get wet! Caution!). Included is a 2GB microSD card on which video and pictures can be recorded. These files can then be viewed on a TV with the included Video out cable or saved onto a PC via the USB cable included. The 3.5" LCD is detachable from the handle, which receives a wireless transmission from the camera. This enables more flexibility during operation, i.e. you can hold and manoeuvre the camera with one hand whilst keeping the LCD in full view in the other hand all the time. It makes operation easier.

- 2GB microSD card included (accepts up to 16GB)
- IP67 rated camera and flexible boom
- 4 white LEDs
- Three useful accessories - hook, mirror, magnet.
- Strong plastic carry case
- 4 x AA batteries required for camera handle
- USB cable included
- Video out cable included
- Power supply 5VDC 1A included



Dimensions	
Monitor	100 x 70 x 25mm
Camera Diameter	9mm
Camera handle	86 x 145 x 41mm
Flexible boom	1m

Specifications	QC-8712
Photo & Video resolution	640 x 480
Video memory usage approx.	27MB/min - With 2GB microSD card approx.
Photo memory usage approx.	75KB - With 2GB microSD card approx.
LCD	3.5"
Wireless transmission frequency	2.4GHz
Lithium-ion battery in LCD	3hour Charge, 2 hour usage.



⬆	Cat.	Qty 1+	Qty 2+	Qty 4+	
	Inspection Camera	QC-8712	\$309.00	\$269.00	\$239.00
	Extension Shaft 2m	QC-8702	\$79.95	\$71.95	\$67.95

LCD MODULES

LCD Panel 2 Line 16 Character Compact with Backlight & SIL Connections

This compact LCD module has 96 inbuilt ASCII characters as well as 92 special letters and 8 custom characters, which can be displayed on a 16 character by 2 line screen. It will hold the current input on the display using its own built in memory, making it easy to drive. Connections via single in line solder pads with an independent backlight.



Specifications	QP-5512
Type	2 line LCD
Characters	16 x 2 lines
Character size	4.89 x 2.78mm
Viewing angle - vertical	Sym 0 condition: CR >= 2°, Min -10° Max 40°
Viewing angle - horizontal	Sym 0 condition: CR >= 2°, Min -30° Max 30°
Supply voltage for logic	5VDC
Other mechanical data	Power supply current: 2mA, Duty: 1/16
Module dimensions	66(W) x 26(H) x 12(D)mm
Viewing display area	51(W) x 14.8(H)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5512	\$19.95	\$17.95	\$15.70

Dot Matrix LCD Modules - Alphanumeric

Compact Liquid Crystal Diode module with ASCII (96 characters), Special Letters (92 characters) and Custom Letters (8 characters). A two line screen displays up to 16 characters at a time and the module will hold the current display in its own inbuilt memory.



Specifications	QP-5515/QP-5516
Type	Alphanumeric, 2 line LCD
Characters	16 x 2 lines
Character size	4.89 x 2.78mm
Viewing angle - vertical	Sym 0 condition: CR >= 2°, Min -10° Max 40°
Viewing angle - horizontal	Sym 0 condition: CR >= 2°, Min -30° Max 30°
Supply voltage for logic	SYN: VDD - VSS Min 4.5V Typ 5V Max 5.5V
Other mechanical data	STN, yellow green, 1/16 duty, 6 o'clock
Module dimensions	85(W) x 30(H) x 13.2(D)mm
Viewing display area	65(W) x 16(H)mm

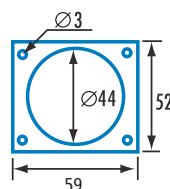
⬆	Cat.	Qty 1+	Qty 10+	Qty 25+	
	Without Backlight	QP-5515	\$15.95	\$14.35	\$10.95
	With Backlight	QP-5516	\$19.95	\$17.95	\$13.95

PANEL METERS - MU45

Panel Meters Style MU45 - Moving Coil Type

Overall Dimensions: 59(W) x 52(H)mm.

- 44mm meter hole
- MU45
- Class 2.5



Cat.	Coil Resistance	Scale
QP-5010	200 Ω	0-1mA
QP-5012	3,000 Ω	0-50μA
QP-5013	0.05 Ω	0-1A
QP-5014	0.01 Ω	0-5A
QP-5015	0.005 Ω	0-10A
QP-5016	0.003 Ω	0-20A
QP-5020	20,000 Ω	0-20V
QP-5022	30,000 Ω	0-30V



QP-5013



QP-5014



QP-5016

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	Any of the above	\$17.95	\$15.95	\$14.35

WORKBENCH EQUIPMENT

PANEL METERS & ACCESSORIES

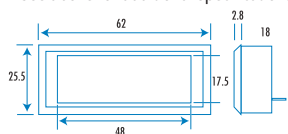
PANEL METERS

Common Specifications for QP-5570, QP-5580 & QP-5585

Polarity	Automatic (-) for negative value
Decimal point	User selectable
Input	Analogue
Full scale range	200mV
Configuration	True differential input and reference
Impedance	10M Ω
Conversion rate	2.5 per second
Zeroing	Automatic
Operating temp	Standard 0 to 50°C

3.5 Digit LCD Panel Meter

- Attractive modern bezel
- Snap retaining into panel
- Shallow depth
- 0.1" launcher connections
- See above for additional specifications



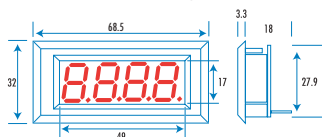
Specifications	QP-5570
Type of display	LCD
Digits	3 1/2 digits (1999) 12.7mm figure height
Power	5V powered
Over range	Display flashes "1"
Accuracy	\pm (0.1%rdg. + 1dgt.)
Connection	13 pins
Dimensions	62(W) x 25(H) x 15(D)mm
Panel cutout	60.5(W) x 24(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5570	\$27.95	\$24.95	\$22.35

3.5 Digit LED Panel Meter

- Surface mount construction for reliability
- 0.1" launcher connections
- Brightness matched superbright LEDs
- Attractive bezel with mounting clips
- 5V powered, TTL compatible common ground
- See above for additional specifications



Specifications	QP-5580
Type of display	LED, red super bright
Digits	3 1/2 digits (1999) 14.2mm figure height
Power	5V powered, common ground
Over range	Display blinks
Accuracy	\pm (0.1%rdg. + 2dgt.)
Connection	10 pins
Dimensions	68.5(W) x 33(H) x 16(D)mm
Panel cutout	64(W) x 28(H)mm

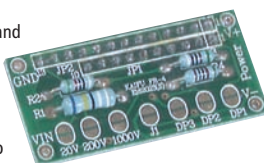


	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5580	\$29.95	\$26.95	\$23.95

Add On Board For QP-5570/80

This add on board makes it easy to set the range and decimal point on our QP-5570 or 80 panel meters. The ranges can be permanently set with a solder bridge or wired to a switch for selectable ranges.

- No 200mV range on QP-5580
- Cannot be used in applications where voltage to be measured also powers DPM.

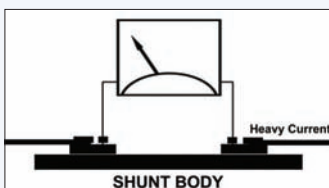


	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5575	\$9.95	\$8.75	\$7.75

TECH TALK!

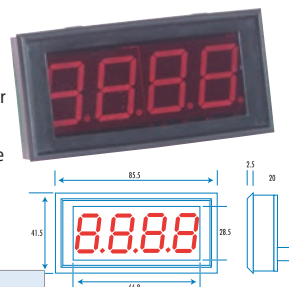
HOW TO INSTALL A SHUNT

- Voltmeter is on millivolt scale
 - Voltmeter connections to shunt are on each side of shunt
 - If current is DC observe polarity. If AC amps connect any way around
 - Specs of shunt generally stamped on the shunt itself i.e. 50mV/50A (voltage drop across shunt) equates to 5, 10, 20A max current, etc.
- i.e. A 25mV reading on the millivolt meter would equate to 25A current on a 50A/50mV shunt. You can read the current straight off the millivolt scale on the meter.



3.5 Digit Jumbo LED Panel Meter

This is not just a digital display, but a fully functional high impedance digital panel meter that only requires power to operate. It will measure voltages from 200mV to 500VDC (jumper selectable) and has a maximum count of 1999. The module is suitable for a host of applications and can be used as a voltmeter or adapted for use as a current meter, thermometer etc. The decimal point location can be selected with a jumper and the module uses an easy "plug-in" fixing method. The meter shares a common ground with the voltage being measured.



Specifications	QP-5585
Type of display	LED
Digits	3.5 Digits (1999) 20.3mm figure height
Power	5VDC, common ground, 60mA typical
Over range	"1" shown on display
Accuracy	\pm 0.5%
Dimensions	85(W) x 42(H) x 25(D)mm
Panel cutout size	84(W) x 41(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5585	\$34.95	\$31.45	\$27.90

Self-Powered LED Panel Meters

Simple and easy to install self-powered meters with voltage or current display. The voltmeter has a simple 2-wire connection, and the current meter has 4-wire connection with an included current shunt. Auto zero calibration and easy to read red LED display. Give your next project a truly professional look. Perfect for automotive, caravan or 4WD use.

- Cutout size 42 x 23mm
- Easy installation
- Reverse Polarity protection
- Auto zero calibration
- Self powered



LED VOLTMETER 8 - 30V DC CAT QP-5586

Specifications	QP-5586
Power requirements	8 - 30VDC
Measurement range	8 - 50VDC
Maximum display count	999
Sample frequency	400mS

LED AMMETER 0 - 50A DC CAT QP-5588

Specifications	QP-5588
Power requirements	8 - 30VDC
Measurement range	0 - 50ADC
Maximum display count	1999
Sample frequency	400mS

Current shunt included
Note! When connecting the ammeter QP-5588 it is essential that the wiring instructions provided with the product are followed, or the meter may be destroyed.



	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP-5586	\$24.95	\$22.35	\$19.70
Ammeter	QP-5588	\$39.95	\$35.90	\$31.90

HEAVY DUTY CURRENT SHUNTS

Placed in series with a high power circuit, these shunt bars allow you to measure high current draw without needing a high current ammeter. Heavy duty brass construction and hand calibrated, they include large terminals for connection of the main circuit cables and smaller terminals for connection to a meter. Suitable for use with a standard multimeter or panel meter you simply measure the millivolts across the shunt to display the current draw of the circuit. Models are compatible with many readily available power meters such as our MS-6172 Digital DC Power Meter.

Cat	Max Current	Voltage at Max Current	Shunt Resistance	Accuracy
QP-5410	5A	50mV	10milliOhm	0.5%
QP-5412	50A	50mV	1milliOhm	0.5%
QP-5415	100A	50mV	0.5mOhm	0.5%
QP-5417	200A	50mV	0.25mOhm	0.5%



QP-5412

Diagram on web



NOTE: Care must be taken when using current shunts to measure DC circuits with common powered meters. Incorrect connection can cause a short circuit between the measuring terminal and the display power resulting in damage to the voltmeter. To avoid this issue the current shunt should be connected in series between the load and the power supply negative. Please see our website for more information.

MANUFACTURERS: WE HAVE A SHUNT SUPPLIER WHO IS IMPOSSIBLE TO BEAT FOR PRICES AND QUALITY. WE CAN SUPPLY CUSTOM SHUNTS IN QUANTITIES AS LITTLE AS 100 PIECES. CONTACT OUR WHOLESALE SUPPLIER FOR DETAILS

	Max Current	Voltage at max current	Cat.	Qty 1+	Qty 5+	Qty 10+
	5A	50mV	QP-5410	\$12.95	\$11.35	\$10.35
	50A	50mV	QP-5412	\$12.95	\$11.35	\$10.35
	100A	50mV	QP-5415	\$19.95	\$17.70	\$15.70
	200A	50mV	QP-5417	\$19.95	\$17.70	\$15.70

GAS SOLDERING IRON COMPARISON GUIDE

Gas soldering irons have been around for a while now. The first ones were nothing more than modified BBQ gas igniters, and then along came PORTASOL from the Republic of Ireland. The PORTASOL people basically created the design that is fundamental to the safe, reliable gas soldering iron of today. PORTASOL irons are still the best, but we offer you a range of irons that cover the whole spectrum. No matter what gas iron you choose from these pages, you will find a great product suitable for your needs at home, on the road or on the water.

Use our selection guide to help choose...

	TS-1111	TS-1112	TS-1113	TS-1305	TS-1310	TS-1320	TS-1318	TS-1328
Soldering Iron	✓	-	-	✓	✓	✓	-	-
Soldering Iron Kit	-	✓	✓	-	-	-	✓	✓
Temperature - Soldering Iron	-	-	500°C	450°C	580°C	580°C	580°C	580°C
Temperature - Hot Blow	-	-	350°C	-	-	-	-	-
Temperature - Torch	-	-	1300°C	-	-	-	-	-
Power (equivalent Watts)	-	-	-	10W/60W	15W/75W	25W/125W	15W/75W	25W/125W
Spare Catalyst	✓	-	-	-	-	-	-	-
Soldering Tips - with Kit	-	✓	-	-	-	-	-	-
Hot Air Blow Tip	-	-	✓	-	✓	✓	✓	✓
Hot Air Deflector	-	-	-	-	-	-	✓	✓
Hot Knife Tip	-	-	-	-	✓	✓	✓	✓
Rope Cutter Tip	-	✓	-	-	✓	-	-	-
Flame Tip	-	✓	-	-	✓	-	✓	-
1.0mm Chisel Tip	-	-	-	-	✓	✓	-	-
1.0mm Conical Tip	✓	-	-	✓	-	-	-	-
2.4mm Double Flat Tip	-	-	-	-	-	-	✓	✓
2.4mm Chisel Tip	-	-	-	✓	✓	✓	-	-
3.0mm Flat Tip	-	-	✓	-	-	-	-	-
4mm Chisel Tip	-	-	✓	-	-	-	-	-
4.8mm Double Flat Tip	-	-	-	-	-	-	-	✓
4.8mm Chisel Tip	-	-	-	✓	✓	✓	-	-
Page	35	35	35	36	36	36	36	36

GAS SOLDERING IRONS

Low Cost Gas Soldering Iron

A low cost alternative, this butane gas soldering iron features adjustable tip temperature and a fold-out stand. Remove the soldering tip and you have a flame torch for heatshrink etc. Great for soldering, cutting plastic, or heat shrinking plastic.

- Dimensions: 210(L) x 20(dia)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron - Gas	TS-1111	\$26.95	\$23.95	\$21.35
Spare Catalyst	TS-1104	\$14.95	\$13.35	\$11.70
1mm Conical Tip	TS-1105	\$4.95	\$4.45	\$3.90
Butane Gas - 150g	NA-1020	\$5.95		

Pro Gas Soldering Tool Kit

A sturdy, portable, self-igniting butane powered gas soldering iron tool kit with 3 tips. Produces a 1300°C adjustable flame for low end brazing, tin/plastic melting, automotive repair work, welding and of course heat shrinking. Supplied with 3 interchangeable metal tips for PCB work. For extra convenience the torch has a handy retractable stand so you can rest it somewhere without worrying about it rolling around. It is supplied in a plastic carry case that includes a cleaning sponge, extra tips, a deflector and a cap for the soldering iron.

Spare tips available separately:

TS-1116 - 3mm Flat
TS-1117 - 4mm Chisel
TS-1118 - Blower Tip

Butane gas required - use
NA-1020 on page 36



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Gas Soldering Tool Kit	TS-1113	\$69.95	\$62.95	\$55.95
3mm Flat Tip	TS-1116	\$4.95	\$4.45	\$3.90
4mm Chisel	TS-1117	\$4.95	\$4.45	\$3.90
Blower Tip	TS-1118	\$12.95	\$11.35	\$10.35
Butane Gas - 150g	NA-1020	\$5.95		

Gas Soldering Iron / Torch Kit

Everything you need to solder, silver solder, braze, heatshrink, strip paint etc. The iron is refillable with standard butane gas and has an on/off switch and a built-in stand for safety. Extra soldering, torch and cutting tips are included, all housed in a moulded storage case. Replacement gas: NA-1020

- 3 soldering tips, 1 rope cutter, 1 torch attachment
- 178mm long



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron/Torch Gas	TS-1112	\$39.95	\$35.90	\$31.90
Butane Gas - 150g	NA-1020	\$5.95		



Specifications	TS-1113
Operating time	80-100 min (on minimal flame)
Gas capacity	20ml
Ignition	Internal Piezo Crystal igniter
Weight	115g without gas
Temperature of torch	Up to 1300°C
Temperature of hot blow	Up to 650°C
Temperature of soldering	Up to 500°C
Case dimensions	236(L) x 32(W) x 37(D)mm

WORKBENCH EQUIPMENT

GAS SOLDERING IRONS

GAS SOLDERING IRONS - PORTASOL

A leading brand recognised worldwide. Portasol® products are designed and manufactured in Ireland, to the highest quality standards. Since commencing operation in 1983, they have forged their way into the market with some of the most rugged & reliable gas powered soldering & heating tools in the world. They utilise catalytic combustion (flame tips excluded), which converts the gas flame into infrared radiation. It is a safe, flameless way of heating the tips evenly and continuously. They all use standard butane gas, and have a variety of tips available to support a wide range of applications.

Portasol® Technic Gas Soldering Iron

The Portasol® Technic combines compact power, and convenient reliability, making it one of the most versatile gas soldering irons available. It offers a run time of around 60 minutes, and tip temperature is adjustable up to 450°C. With equivalent electrical power of between 10 and 60 Watts, it is ready to tackle just about anything. The protective end cap features a built in flint type igniter, and if the gas is left on, it will turn it off when replaced. If a compact, versatile and reliable gas iron is what you're after, then the Portasol® Technic is for you.



Specifications	TS-1305
Operating time	60 min (approx).
Refill time	10 sec (approx).
Ignition	Flint igniter in end cap.
Dimensions	170(L) x 19(Dia)mm.
Weight	60g without gas.

TIPS TO SUIT

1.0mm Conical	TS-1306	\$23.95
2.4mm Chisel	TS-1307	\$23.95
4.8mm Chisel	TS-1308	\$23.95



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1305	\$59.95	\$53.95	\$47.90

Portasol® Pro Piezo Gas Soldering Iron

The Portasol® Pro Piezo is a powerful gas soldering iron featuring an adjustable temperature control allowing soldering tip temperatures up to 580°C. With equivalent electrical power of between 15 and 75 Watts, there is little that's not possible with this beauty. It incorporates a viewing window at the end of the gas tank, to keep an eye on the fuel level. The fuel tank fills in around 20 seconds, and will provide approximately 45 minutes of run time. Ignition is via the built in Piezo crystal mechanism, and the end cap provides safety gas shut off when replaced. The Portasol® Pro Piezo is a dream to use, and will not let you down.

- 2.4mm double flat tip supplied.



Specifications	TS-1310
Operating time	45 min (approx).
Refill time	20 sec (approx).
Ignition	Internal Piezo crystal ignitor.
Dimensions	178(L) x 22(Dia)mm.
Weight	75g without gas.

TIPS TO SUIT

1.0mm Chisel	TS-1311	\$23.95
2.4mm Chisel	TS-1312	\$23.95
4.8mm Chisel	TS-1313	\$23.95
Hot Air Blow	TS-1314	\$23.95
Hot Knife	TS-1315	\$23.95
Flame	TS-1316	\$23.95



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1310	\$99.95	\$89.95	\$79.95

Portasol® Pro Piezo Gas Soldering Tool Kit

This kit contains a Portasol® Pro Piezo Gas Soldering Iron and the following.

- Quality storage case
- 2.4mm double flat tip (TS-1312)
- Hot knife tip (TS-1315)
- Flame tip (TS-1316)
- Cleaning sponge and tray
- Hot air blow (TS-1314)
- Hot air deflector



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1318	\$129.00	\$115.95	\$102.95

portasol®



See page 43 for solder

Butane Gas

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves. Includes filling instructions.

- Enough gas for many many refills
- Cannot be sent by post



5 adaptors supplied

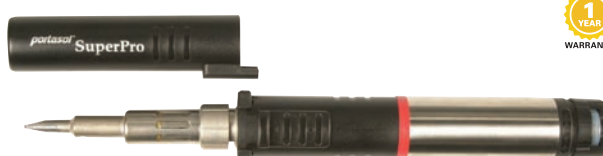


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
150g	NA-1020	\$5.95	\$5.25	\$4.75

Portasol® Super Pro Gas Soldering Iron

The Portasol® Super Pro is the big brother of all irons in the range. It features adjustable tip temperature up to 580°C, with equivalent electrical power of between 25 and 125W! 125W may seem somewhat excessive to some. You don't need a V8 to drive around town, but it's nice to know that the power is there when it's needed isn't it? Ignition is achieved with the internal Piezo crystal mechanism, and run time is around 2 hours on a 30 second refill. The stainless steel finished gas tank features a viewing window to keep an eye on fuel level, & the protective end cap also acts as a safety cut off for the gas valve control when replaced. With the various tips available & huge power at hand, no job is a match for the Portasol® Super Pro.

- 2.4mm tip supplied.



Specifications	TS-1320
Operating time	120 min (approx).
Refill time	30 sec (approx).
Ignition	Internal Piezo crystal ignitor.
Dimensions	234(L) x 25(Dia)mm.
Weight	135g without gas.

TIPS TO SUIT

1.0mm Chisel	TS-1321	\$24.95
2.4mm Chisel	TS-1322	\$24.95
4.8mm Chisel	TS-1323	\$24.95
Hot Air Blow	TS-1324	\$24.95
Hot Knife	TS-1325	\$24.95

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1320	\$119.00	\$106.95	\$94.95

Portasol® Super Pro Gas Soldering Tool Kit

Features 120 minute run time, 30 second fill, maximum 580°C temperature and 40 second heat up. This kit contains a Portasol® Super Pro Gas Soldering Iron and the following.

- Quality storage case
- Hot air blow (TS-1324)
- Cleaning sponge and tray
- Hot knife tip (TS-1325)
- 2.4mm double flat tip (TS-1322)
- Hot air deflector
- 4.8mm double flat tip (TS-1323)



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1328	\$159.00	\$142.95	\$126.95

BEST SELLER

GAS TORCHES & COMBOS

Pencil Butane Torch

Pocket sized gas torch for heatshrinking, soldering etc and uses standard butane gas. Adjustable flame, all metal construction.

- Dimensions: 205(L) x 13(Dia)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1667	\$11.95	\$10.70	\$9.50

Compact Pocket Size Gas Blowtorch

At only 95mm high, this product is amazing. It is a fully self-contained Butane 1300°C portable blow torch. It has simple press button Piezo ignition, flame control and safety lock. The unit can be recharged with a suitable Butane refill (such as the NA-1020) It will take 7g of gas which will give 30 minutes of use at mid setting. Has protective burner cap.

Ideal for:

- Low temp silver soldering
- Heat Shrinking
- Soft soldering ("sweating")
- Hobby use
- Food preparation etc.

Dimensions:
95(H) x 55(L) x 26(W)mm,
weight 45g (dry)

For suitable Butane Gas use NA-1020
For Silver Solder use NS-3045



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1610	\$24.95	\$22.45	\$19.95

Piezo Ignition Butane Gas Torch

Perfect for silver soldering, brazing, heat treating, heat-shrinking, paint removal etc. It's able to produce a flame about 100mm long, so is capable of more than light-duty work. The 64ml tank gives a burn time of 60-70 minutes and uses any butane gas. It also has an adjustable flame, a child-proof piezo ignition button and a stand so you don't knock it over and burn the house down.

- Piezo ignition with safety lock
- 1300° C adjustable flame
- Butane gas refill: NA-1020
- Dimensions: 150(H), base 69 x 69mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1660	\$39.95	\$35.90	\$31.90

Blow Torch Attachment

Fits onto a standard butane cartridge and produces a large flat flame for copper and plastic pipe welding, shrinking heatshrink, etc.

- Auto ignition
- Adjustable flame length
- Works upside-down for up to 10 secs
- 165 x 75 x 55mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Blow Torch Attachment	TH-1630	\$34.95	\$31.45	\$27.90
Butane Gas to suit	NA-1020	\$5.95	\$5.25	\$4.75

See our Heatshrink Pack with Gas Blower on page 204

Gas Plastic Welding Kit

Great for welding or repairing plastic parts and components. Suits a wide variety of uses from model making to automotive use. eg. repairing vehicle bumper bars, broken headlight fittings, cracks, fractures, deep scratches, etc. Supplied in a handy carry case. For suitable gas use NA-1020 150g Butane.

Kit contains:

- Gas iron with stainless housing
- 1 x 9mm and 1 x 12mm plastic welding tip
- Blowcase with upper case sponge
- Copper Brush
- Screwdriver
- Iron Rod
- Plastic weld material:
6 x 170mm (PP)
6 x 170mm (PE)
6 x 170mm (PC)
6 x 170mm (ABS)
- 3 x 100x60mm Stainless steel mesh for reinforcement
- Case dimensions: 315(L) x 245(W) x 70(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1331	\$99.95	\$89.95	\$79.95

3 in 1 Heat Blower & Soldering Iron

A handy 3-in-1 unit with flame or flameless heat blower and soldering iron function. Great for

general heating, drying, melting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, child resistant latch and uses butane gas. The tip has a sturdy cap for when not in use. Ideal for hobbyists and professionals alike.



Spare Tip available: TH-1603

Butane gas required -
use NA-1020

Specifications	TH-1604
Burning time	55-95min
Gas capacity	10ml
Temperature of hot blow	Up to 500°C
Temperature of soldering	Up to 450°C
Dimensions	144(L) x 35(W) x 23(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Gas Soldering Iron	TH-1604	\$29.95	\$26.95	\$23.95
1mm Conical Tip	TH-1603	\$3.95	\$3.45	\$3.15

3 in 1 Mini Gas Soldering Tool Set

A handy gas soldering iron with flame or flameless heat blower function.

Great for general heating, drying, melting, cutting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, retractable stand, visible gas tank and child resistant latch. The tip has a sturdy cap for when not in use.

Carry case includes 1mm tip, 3mm chisel tip, 5mm angle tip, hot knife tip, 1mm solder hobby pack, cleaning sponge and tray.

Spare 1mm Conical Tip available: TH-1603
Butane gas required - use NA-1020

Specifications	TH-1606
Burning time	55-95min
Gas capacity	7ml
Power range	25W to 70W
Flame temp	Up to 1300°C
Iron dimensions	148(L) x 35(W) x 23(D)mm
Case dimensions	175(W) x 125(D) x 33(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
3 in 1 Mini Gas Soldering Tool Kit	TH-1606	\$44.95	\$40.45	\$35.90
1mm Conical Spare Tip	TH-1603	\$3.95	\$3.45	\$3.15

PRO GAS SOLDERING STARTER KITS

Gas Soldering & Heatshrink Kit

Excellent value and a handy kit to have close at hand for those quick and urgent repairs. Includes many of the necessary accessories for your wiring and soldering needs, making it an ideal kit for the home handyman, enthusiast or electrician. Supplied in a hard plastic carry case.

This kit contains:

- Pro Gas Soldering Iron with built-in stand, and cap. Spare tips included: Chisel tip, anvil tip, flat tip, deflector, solder, cleaning sponge
- 3mm Desolder Braid (NS-3020)
- 115mm Stainless Steel Side Cutters (TH-1890)
- Heavy Duty Wire Stripper/Cutter/Crimper with Wire Guide (TH-1827)
- 28 Piece Screwdriver set
- Heatshrink assortment:
1.5mm - 20 x black, 5 x red, 5 x clear
2.5mm - 10 x black, 3 x red, 3 x clear
3.0mm - 8 x black, 2 x red, 2 x clear
5.0mm - 7 x black, 2 x red, 2 x clear
6.0mm - 3 x black, 1 x red, 1 x clear
- Straight Demagnetised 116mm Long Tweezers
- Curved Demagnetised 121mm Long Tweezers
- Small 9 x LED Torch 26(Dia.) x 84mm (Requires 3 x AAA batteries)
- Case dimensions: 130(W) x 150(D) x 70(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1115	\$129.00	\$115.95	\$102.95

SOLDERING IRONS - 240 VOLT COMPARISONS

Soldering components together is such a fundamental part of electronics that a true enthusiast needs at least 2 soldering irons. (Have you seen how many bats cricketers carry these days?)

You really need a dedicated soldering station for your workbench and at least one hand-held portable for the toolbox. When you're working on the car, boat, back shed etc you really need a portable unit. You may even need a heavy 80-odd watt unit for heavy electrical jobs. Jaycar not only has an excellent range of 240V units shown here, we also have gas and battery powered tools as well.

Use our selection guide to help choose...

	Voltage	Power (Watts)	Temperature Range	Soldering Iron Kit	Page
TS-1465	240V	25W	380°C	-	38
TS-1554	240V	20W/130W	420°C	-	38
TS-1540	240V	30W	200-450°C	-	38
TS-1475	240V	40W	470°C	-	38
TS-1430	240V	80W	320°C	-	38
TS-1485	240V	80W	530°C	-	38
TS-1536	12VDC	30W	430°C	-	39
TS-1538	7.2VDC Battery	16W	350°C	-	39
TS-1535	3 x AA Batteries	6W	450°C	-	39
TS-1652	240V	25W	420°C	✓	39
TS-1651	240V	20/130W	420°C	✓	39

SOLDERING IRONS - 240V

25W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Spare tip available - TS-1466



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1465	\$13.95	\$12.35	\$10.95
Spare tip	TS-1466	\$3.95	\$3.45	\$3.15

20/130W Turbo Soldering Iron

Sometimes you need that extra bit of heat in your soldering. Push the little red button on this iron and you get a lot more power - from 20 watts to 130 watts to be precise. Weller-style removable barrel, plated tip and ceramic element.

- Spare tips available: TS-1555 - 0.5mm conical tip, TS-1556 - 1mm conical tip, TS-1557 - 2mm chisel



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1554	\$17.95	\$16.10	\$14.30
0.5mm conical tip	TS-1555	\$4.95	\$4.45	\$3.90
1mm conical tip	TS-1556	\$4.95	\$4.45	\$3.90
2mm chisel tip	TS-1557	\$4.95	\$4.45	\$3.90

40W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip impact-resistant handle.

- Fully electrically safety approved.
- Spare tip to suit use Cat. TS-1476



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1475	\$18.95	\$16.95	\$14.95
Spare tip	TS-1476	\$4.95	\$4.45	\$3.90

30W Temperature Controlled Soldering Iron

If your budget doesn't extend to a soldering station, you can still have temperature control. This iron is adjustable with a dial on the handle.

- It has a temperature range of 200 - 450°C, high enough for silver soldering if needed
- Plated long-life tip.
- Spare tip available TS-1542 - 1mm conical tip



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1540	\$29.95	\$26.95	\$23.95
1mm Conical Tip	TS-1542	\$4.95	\$4.45	\$3.90

80W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Ideal for heavy electrical work, lugs, etc.
- Fully electrically safety approved.
- Spare tip to suit use Cat. TS-1486



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1485	\$22.95	\$20.35	\$18.35
Spare tip	TS-1486	\$8.95	\$7.95	\$6.95

80W Goot Soldering Pencil - 240V

THIS HIGH QUALITY SOLDERING IRON IS MADE IN JAPAN BY GOOT. This soldering iron offers exceptional heat recovery. The ceramic heater is automatically controlled by the heating load of the tip. With its high insulation and low current leakage, soldering of precision flat ICs and CMOS is safe. The heater on/off control uses a zero-volt switch circuit which reduces electrical noise.

- Tip temperature is set at 320°C
- The power lead is made from silicone rubber - very flexible
- The handle incorporates a ribbed rubber piece for extra grip
- Electricity Safety Approval Number SAITE20185



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Pencil	TS-1430	\$79.95	\$71.95	\$63.95
0.5mm Conical Tip (As supplied with iron)	TS-1432	\$19.95	\$17.95	\$15.95
0.3mm Conical Tip	TS-1434	\$19.95	\$17.95	\$15.95
3.0mm Chisel Tip	TS-1436	\$19.95	\$17.95	\$15.95

SOLDERING STATION COMPARISON GUIDE

No workshop bench is complete without a proper soldering station. A loose hand-held iron just won't do! If you look at the magnificent montage of workshop benches featured on this year's cover you will see many instances of a trusty soldering station featured.

Once again, we only change products when a new one is so outstanding we can't ignore it. So, if you're in the market for a new soldering station, make sure you check out the Curie switching unit on page 42.

This soldering station is a new twist on magnetic "Curie point" switching. It is very clever indeed.



Use our selection guide to help choose...

	Soldering Station	Desoldering Station	Voltage	Power (Watts)	Temperature Range	Display	ESD Safe	Page
TS-1620	✓	-	240V	40W	150-450°C	-	-	40
TS-1564	✓	-	240V/24V	48W	150-450°C	-	-	40
TS-1390	✓	-	240V/24V	60W	160-480°C	LCD	-	41
TS-1440	✓	-	240V/24V	70W	200-480°C	LED	✓	42
TS-1513		✓	240V/24V	80W	160-480°C	LCD	✓	41
TS-1574	✓	✓	240V/24V	60W/320W	160-480°C	LCD	✓	41
TS-1584	✓	-	240V	50W	350-398°C*	-	✓	42

* Temperature rating is set by the soldering iron tip

SOLDERING STATIONS - 240V

40W Temperature Controlled Soldering Station

An ideal entry-level soldering station for the hobby user. This station comes with a lightweight iron with anti-slip grip and tip cleaning sponge, with temperature adjustment up to 450°C.

It also has a 4mm banana socket connected to mains earth for soldering static-sensitive components.

- Spare tip 0.5mm conical: TS-1622



Specifications	TS-1620
Recommended use	Hobby
Power	40W
Temperature range	150 - 450°C
Analogue/digital	Analogue
Operating voltage	240VAC
ESD rated	No
Lead-free rated	No
Dimensions	135(L) x 82(W) x 70(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station	TS-1620	\$59.95	\$53.95	\$47.90
0.5mm Conical Tip	TS-1622	\$8.95	\$8.25	\$6.95

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar

Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.



48W Temperature Controlled Soldering Station

Ideal station for the advanced hobby user. It features accurate analogue temperature adjustment, ceramic element and a lightweight pencil that will give you hours of fatigue-free soldering. The stand has spare tip storage and is very sturdy.

- Spare tips/pencil available



BEST SELLER

Specifications	TS-1564
Recommended use	Hobby
Power	48W
Temperature range	150 - 450°C
Analogue/digital	Analogue
Operating voltage	24V
ESD rated	No
Lead-free rated	Yes
Dimensions	150(L) x 115(W) x 92(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Station	TS-1564	\$99.95	\$89.95	\$79.95
Spare Pencil	TS-1565	\$39.95	\$35.90	\$31.90
0.5mm Conical Tip	TS-1566	\$9.95	\$9.25	\$7.75
2.0mm Chisel Tip	TS-1567	\$9.95	\$9.25	\$7.75

RELATED PRODUCTS

Tips for Superseded Irons & Stations

TIPS TO SUIT WELLS SOLDERING IRON (VARIOUS MODELS)



↑	Weller Part	mm	°C	Cat.	Qty 1+	Qty 3+	Qty 6+
	PTA6	1.6	315	TS-1352	\$19.95	\$17.95	\$15.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



SOLDERING STATIONS - 240V (CONTINUED)



60W Lead Free Soldering Station with LCD Panel

Differing types of lead-free solder have a variety of melting points which can create problems for older soldering stations or those not designed for lead free solder. This excellent soldering station is particularly suited to lead-free soldering and is just as capable with ordinary leaded solder. The iron has a wide temperature range which is microprocessor controlled and maintained to within a few degrees of the selected setting. The lightweight soldering pencil is fitted with a soft insulated rubber grip for comfortable long term use and has a silicon rubber sheathed power cable that won't be damaged by contact with the hot soldering tip. It is connected to the main unit via a 1.1m low voltage cable which is terminated with a secure 5 pin connector. The control unit houses the temperature controls and simultaneously displays the set operating temperature and actual tip temperature, as well as system status on its digital LCD panel. For a list of spare parts search for TS-1390 on our website.

- Spare conical tips available



Specifications	TS-1390
Recommended use	Trade / Industrial
Power	60W
Temperature range	160 - 480°C
Analogue/digital	Digital
Operating voltage	24VAC
ESD rated	No
Lead-free rated	Yes
Dimensions	130(L) x 170(W) x 240(H)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Station	TS-1390	\$159.00	\$142.95	\$126.95
0.4mm Conical Tip	TS-1391	\$12.95	\$11.35	\$10.35
1mm Conical Tip	TS-1392	\$12.95	\$11.35	\$10.35
2mm Chisel Tip	TS-1393	\$12.95	\$11.35	\$10.35
3mm Bevel Tip	TS-1394	\$12.95	\$11.35	\$10.35

80W ESD Safe Desoldering Station with LCD



A high-performance desoldering station ideal for production and service use. This unit is microprocessor controlled for precise control of dynamic thermal performance where you need it. Suitable for desoldering all types of components, and also allow easy removal of the residual solder at the same time. Made of high quality ceramics, the heater inside the desoldering gun is highly stable and durable to provide quick heating.

The unit has a backlit LCD that displays the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit. The temperature is easily adjusted in 1° increments with simple up/down buttons. ESD safe and suitable for lead-free solder. Desoldering station comes with desoldering gun (with 2 conical tips), 4 filters, tip cleaning rod, and user instructions. A range of desoldering accessories is available separately.

- Backlit LCD
- Microprocessor controlled
- Screw-n barrel
- Digital temperature display
- Ceramic heater element
- Diaphragm air pump

Specifications	TS-1513
Desolder Gun	80W (heating power 130W)
Temperature range	160 - 480°C
Station Power	140W
Vacuum Pressure	600mm Hg
Dimensions	225(L) x 130(W) x 168(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Desolder Station	TS-1513	\$199.00	\$178.95	\$158.95
Spare Desoldering Gun	TS-1514	\$54.95	\$49.45	\$43.90
Spare Ceramic Heater	TS-1515	\$16.95	\$14.95	\$13.35
Spare 0.8mm Conical Tip	TS-1517	\$13.95	\$12.35	\$10.95
Spare 1.0mm Conical Tip	TS-1516	\$13.95	\$12.35	\$10.95
Spare 1.3mm Conical Tip	TS-1518	\$13.95	\$12.35	\$10.95
Spare Filter Set of 2	TS-1519	\$1.95	\$1.75	\$1.55
Spare Black Plastic Cap	TS-1520	\$2.95	\$2.60	\$2.30

60W ESD Safe Solder/Desolder Rework Station



Complete solder/desolder station for production and service use. Both the soldering pencil & hot air blower temperature are microprocessor controlled for precise control of dynamic thermal performance where you need it - at the work tip.

The control unit has two LCDs that display the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit.

The temperature is easily adjusted in 1° increments with simple up/down buttons and the soldering/rework functions can be operated independently of each other.

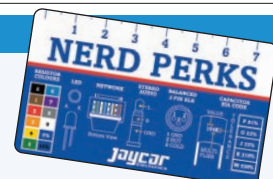
Specifications	TS-1574
Recommended use	Trade / Industrial
ESD rated	Yes
Lead-free rated	Yes
Analogue/digital	Digital
Soldering Iron	
Power	60W
Temperature range	160 - 480°C
Operating voltage	24VAC
Air Pump	
Heating element power	80W
Power	45W
Air flow	0.5 - 24 litres/min
Blower power	320W
Temperature range	160 - 480°C
Operating voltage	240VAC
Dimensions	225(L) x 215(W) x 155(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Station	TS-1574	\$349.00	\$309.00	\$279.00
2.5mm Blower Tip	TS-1575	\$13.95	\$12.35	\$10.95
4.4mm Blower Tip	TS-1576	\$13.95	\$12.35	\$10.95
10 x 10mm Quad Tip	TS-1577	\$19.95	\$17.95	\$15.95
15 x 15mm Quad Tip	TS-1578	\$19.95	\$17.95	\$15.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!
Sign-up in-store or online. *Conditions apply. See page 7 for details



SOLDERING STATIONS - 240V (CONTINUED)

70W ESD Safe Anti-static Temperature Controlled Soldering Station with Digital Display

Precision, Japanese manufactured instrument with excellent temperature stability and anti-static characteristics.

SOLDERING PENCIL

Lightweight pencil features a grounded tip, ceramic heater, integrated temperature sensor and very supple silicone rubber grip. The temperature sensor provides precise tip-temperature information to the heater controller, which maintains the selected heat setting with a high degree of accuracy. The tip fits snugly over the heater element providing fast heat transfer and tip temperature recovery during heavy soldering. The 1.1m silicone sheathed cord attaches to the controller via a 5 pin DIN connector.

- 0.5mm tip supplied

CONTROL UNIT

The control panel includes a digital temperature display unit, rotary temperature control, calibration control and display changeover switch to display either the desired or actual tip temperature. The darkened see-through cover prevents accidental temperature change but allows for easy access when required.

- Control dimensions, weight: 146(L) x 115(W) x 98(H)mm, 1.5kg



Specifications	TS-1440
Recommended use	Trade / Industrial
ESD rated	Yes
Lead-free rated	Yes
Analogue/digital	Digital
Soldering iron	
Power	70W
Temperature range	200-480°C
Operating voltage	24VAC
Dimensions	146(L) x 115(W) x 98(H)mm

Japanese Made



	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Station	TS-1440	\$299.00	\$269.00	\$239.00
Replacement sponge	TS-1445	\$7.95	\$6.95	\$6.25
0.2mm Conical Tip	TS-1442	\$19.95	\$17.95	\$15.95
0.5mm Conical Tip	TS-1441	\$19.95	\$17.95	\$15.95

Thermaltronics Curie Heat Technology Soldering Station

This is the outstanding new soldering station mentioned in our intro to this section. It uses a proven technology, Curie point temp sensing with a new twist. The tip is heated by RF induction to bring the tip up to operating temp. The soldering iron tip is the heater. Older Curie point soldering irons like the famous Weller W-TCP used a separate Curie-switch, heater and tip. There are thermocouples, varistors or other temp sensors that only complicate things on inferior irons. The thermal inertia with the Thermaltronics product is far lower.

The system consists of the base power unit which connects to mains 240V. The soldering pencil accepts a cartridge tip (which is also the heating element) and a burn-proof silicon rubber cord. The third element in the system is the pencil iron stand. This stand features a 'dry'-type tip cleaner which is made from machine curled brass and also a standard sulphide free tip sponge.

Other features / specifications:

- Tips can be hot swapped
- Constant tip temperature
- Low power idle
- Under 10 second heat-up
- Rapid recovery from soldering load.
- No overshoot
- No calibration needed
- ESD rated
- Can work leaded and unleaded solder

Conclusion

This is a very exciting development in soldering technology. We are sure that you will be delighted with this product

NEW 2016

THERMALTRONICS

CE TUV TUV GS

*Tested & certified by TUV-SUD

BONUS

Gold Plated Connector Lead-Free Tip

Stainless Steel Shaft

0.5mm tip is now included with our TS-1584 at no charge!



Specifications	TS-1584
Recommended use	Serious Hobbyist/Trade/Industrial
ESD rated	Yes
Lead-free rated	Yes
Soldering Iron	
Power	50W
Temperature range	350°C - 398°C (determined by tip)
Output Frequency	470kHz
Tip to GND Resistance	<2 Ohms DC
Tip to GND Potential	2mW, true RMS 50 - 500Hz
Dimensions	155(H) x 110(W) x 92(D)mm, 1.3kg



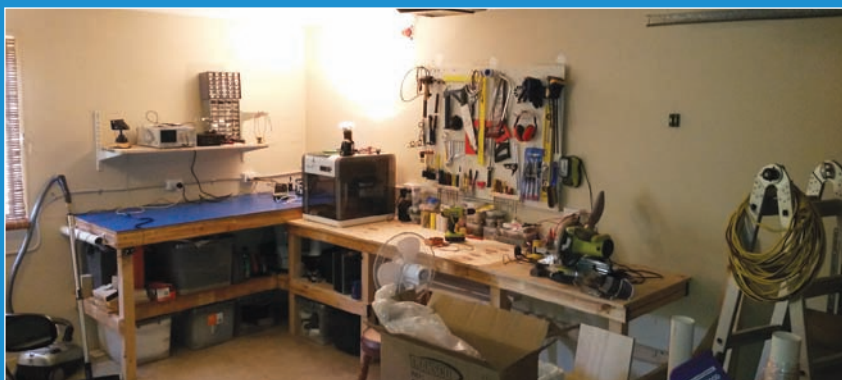
	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Station (including 0.5mm tip)	TS-1584	\$359.00	\$319.00	\$279.00
Thermaltronics replacement iron	TS-1585	\$129.00	\$115.95	\$102.95
0.51mm Conical Tip 350°C - 398°C	TS-1586	\$19.95	\$17.95	\$15.95
1.0mm Conical Tip 350°C - 398°C	TS-1587	\$19.95	\$17.95	\$15.95
3.2mm Chisel Tip 350°C - 398°C	TS-1588	\$19.95	\$17.95	\$15.95

Workbench sent to us by: David Jaycar Store: Underwood

I designed and built this L shaped bench workspace in one half of my double garage. It has an electronics bench which you can see covered with a blue antistatic mat. The other bench is for hardware work.

Since this photo was taken, I have acquired some additional instruments and equipment. It has made working on home electronics projects much easier.

For more details, visit:
www.jaycar.com.au/workbench



SOLDER

Duratech Solder

60% TIN / 40% LEAD

Two sizes available, 1.0mm and 0.71mm diameter

- 0.71mm is ideal for work with ICs & all fine soldering
- Both types are resin cored
- Hobbypacks are supplied in easy to use cannisters

NERD
PERKS
2x
POINTS



1KG ROLLS

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3002	\$74.95	\$67.50	\$59.95
1.00mm	NS-3015	\$74.95	\$67.50	\$59.95

200G ROLLS

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3005	\$15.95	\$14.35	\$12.75
1.00mm	NS-3010	\$15.95	\$14.35	\$12.75

HOBBYPACK CANNISTERS

- Contains 15-20 grams weight.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3008	\$1.95	\$1.75	\$1.55
1.00mm	NS-3013	\$1.95	\$1.75	\$1.55

Lead-Free Solders

99.3% tin, 0.7% copper lead-free.
Sizes for every application from hobby to industry.



200G ROLLS

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3088	\$24.95	\$22.45	\$19.95
1.00mm	NS-3094	\$24.95	\$22.45	\$19.95

500G ROLLS

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3090	\$49.95	\$44.90	\$39.90
1.00mm	NS-3096	\$59.95	\$53.95	\$47.95

HOBBYPACK CANNISTERS

- Contains 15-20 grams weight.

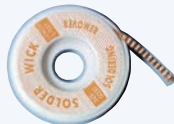


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3086	\$2.95	\$2.75	\$2.30
1.00mm	NS-3092	\$2.95	\$2.75	\$2.30

RELATED PRODUCTS

3mm Desolder Braid

A specially treated piece of braid for removing solder from a PCB. Place the braid over the solder and apply soldering iron to efficiently remove solder. 3mm wide, 120mm long.



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3mm wide	120mm	NS-3020	\$3.25	\$2.90	\$2.60

Goot Desolder Braid

High quality Goot brand Gootwick, made in Japan
Contains wash-free RMA flux, conforms to MIL-F-14256F

NOTE!
Japanese Made

- Plastic reels
- 1.5m long



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5mm wide	1500mm	NS-3026	\$5.95	\$5.25	\$4.75
2.0mm wide	1500mm	NS-3027	\$5.95	\$5.25	\$4.75
3.0mm wide	1500mm	NS-3028	\$5.95	\$5.25	\$4.75

Solder Sucker & Blower Bulb

A quick & simple bulb type solder sucker that is cheap, compact and effective. Buy two or three and you will always have one handy

- Approximately 50(D) x 110(L)mm
- Versatile! Suck or blow



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Sucker	TH-1850	\$6.95	\$6.25	\$5.50

"Silver" Solder

This product is a wire-type solder which is a low temperature version of silver solders of the past. Silver solder is used to make mechanically sound joints similar to brazing but without the need for an oxy-acetylene or oxy-butane torch. It is far, far stronger than tin/lead solder.

The product is basically pure tin with around 4% silver. It contains no lead or cadmium. It melts at 221°C so could be actually soldered with a very hot soldering iron but best results are with a butane type blowtorch. The product includes an adequate amount of liquid flux which is basically zinc chloride, water, ammonia and other chlorides. The flux is an eye irritant so safety goggles should be worn.



- 14g solder with 14g of flux
- Wire diameter: 1.16mm approx
- MSDS supplied
- Coil length: 1.8m approx

1
YEAR
WARRANTY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
14g Solder + 14g Flux	NS-3045	\$19.95	\$17.70	\$15.70

SOLDER PENS & SYRINGES

Solder Flux Pen - 12ml



A quick drying, no-clean flux for use when removing or replacing surface mount components. Applying the flux to solder joints will aid re-flow when heating the joint to remove the component, or it can be applied to bare copper or tinned tracks providing excellent solderability.

- Dries in 5 to 10mins
- Handy 12ml pen with chisel tip

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12ml	NS-3036	\$11.95	\$10.70	\$9.50

Solder Flux Paste - 56g Tub

A mildly-activated agent to provide superior fluxing ability, which enables you to produce high quality soldered joints, and reducing solder waste. The active ingredients in DeoxIT® Rosin Soldering Flux are non-ionic and non-conductive, and ideal for situations when post-soldering cleaning is not possible, and the residue must be highly insulating.



- Non-flammable
- Non-corrosive

1
YEAR
WARRANTY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
56g	NS-3070	\$15.95	\$14.35	\$12.75

Plastic Desolder Tool



ABS plastic body with strong suction. Very easily cleaned.
Total length including tip 195mm.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1860	\$11.95	\$10.70	\$9.50
Spare tip	TH-1861	\$3.95	\$3.45	\$3.15

Metal Desolder Tool



Made of lightweight metal and has strong suction.

- Constant vacuum force
- Replacement tip (Teflon)
- Cleans itself with each action
- Total length incl tip - 195mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1862	\$16.95	\$14.95	\$13.35
Spare tip	TH-1863	\$4.95	\$4.45	\$3.90

Deluxe GOOT Desoldering Tool



High quality GOOT brand desoldering tool. Japanese built quality and a large vacuum chamber for strong suction.

- Large vacuum chamber - Total length: 330mm

NOTE!
Japanese Made

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1856	\$27.95	\$24.95	\$22.35
Spare tip	TH-1857	\$8.95	\$7.95	\$6.95

WORKBENCH EQUIPMENT SOLDERING & ACCESSORIES

SOLDER PENS & SYRINGES (CONTINUED)

Solder Paste SMD Syringe - 15g



Ideal for surface mount work and rework, solder paste provides a quick and easy soldering solution. Supplied in a syringe for easy application, simply apply it to the soldering pads, put your components in place and heat it with your soldering iron. Solder paste can go off in storage: we've found a local supplier so you can always be confident that the paste you get will be fresh. 63% tin 37% lead. Solder paste is best kept cool for long life and should be kept refrigerated. For this reason, please ask sales staff for this product, as it will be kept in refrigerated storage, not on display.

- Size: 15 grams
- Dimensions: 120(L) x 15mm(Dia)

	Cat.	Qty 1+	Qty 3+	Qty 6+
15g	NS-3046	\$12.95	\$11.35	\$10.35

Lead Free Solder Paste SMD Syringe - 10g



Lead free solder paste syringes provide a quick and easy soldering solution for your surface mount work and rework. The superior wetting ability of this paste results in bright, smooth and shiny solder joints with lead free alloys. Supplied in a syringe for easy application, simply apply to the soldering pads, put your components in place and heat it with your soldering iron or hot air rework tool.

	Cat.	Qty 1+	Qty 3+	Qty 6+
10 grams	NS-3048	\$13.95	\$12.55	\$11.15

STANDS, CLEANERS & PCB HOLDERS

Soldering Iron Stands

ECONOMY

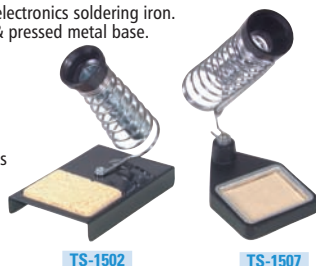
General-purpose stand for just about any electronics soldering iron. It has a large, thirsty tip-cleaning sponge & pressed metal base.

- Base: 84(W)x 130(D) x 25(H)mm
- Holder: 105(L) x 40(W)mm
- Complete height: 120mm

DELUXE

Ideal for heavier soldering irons. It features a hefty cast iron base with removable sponge tray and twin spiral iron holder.

- Base: 78W x 115(D) x 30(H)mm
- Holder: 135(L) x 45(W)mm
- Complete height: 145mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Economy Stand	TS-1502	\$9.95	\$8.75	\$7.75
Spare sponge to suit TS-1502	TS-1503	\$2.75	\$2.45	\$2.15
Deluxe Stand	TS-1507	\$16.95	\$14.95	\$13.35
Spare sponge to suit TS-1508	TS-1508	\$3.95	\$3.45	\$3.15

Solder Stand with Solder Reel Dispenser

Every technician needs one of these on their workbench! It will hold our solder reels and the solder is fed through the guide. It has a handle, so it can easily be carried, and it can be wall mounted to be right there where you always need it. The base is super heavy so even when the solder reel is nearly empty it will feed ok.

- Also good for field service work
- Shaft diameter is 16mm
- Will hold our 1kg rolls
- Weight 620g
- Dimensions: 90(L) x 100(W) x 110(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1504	\$19.95	\$17.95	\$15.70

Goot Soldering Iron Tip Cleaner

The "curly brass" insert doesn't need to be kept wet and cleans without damaging the tip. Uniform iron temperature ensures consistent joint quality and reduces cycle times. It's made from a heavy-duty heat-resistant rubber base that won't slip around on the bench, is static-safe and is also suitable for lead-free solders.

- Supplied with spare insert
- Dimensions-Insert: 45(Dia) x 30(H)mm / Overall: 58(Dia) x 58(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1510	\$17.95	\$15.95	\$14.35

Soldering Iron Tip Cleaning Paste

A healthy tip makes for easier soldering and better heat transfer. This tip contains powdered solder and non-corrosive flux, so all you need to do is dip your hot soldering tip in, and it will clean and tin in one simple action.



	Cat.	Qty 1+	Qty 3+	Qty 6+
15g Tin	TS-1512	\$12.95	\$11.35	\$10.35

PCB Holder

Holds a PCB up to 200 x 140mm in size. The PCB is held in place by spring clamps and can be rotated through 360° at increments of 15°. The base is heavy with well-balanced centre of gravity and built-in rubber feet to ensure you have a firm working surface. Suitable for working with different shaped components, connectors, soldering strips, etc.



Note: PCB not included

- Max holding size: 200(L) x 140(W)mm
- Dimensions: 300(L) x 165(W) x 125(H)mm, 450g

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1980	\$19.95	\$17.95	\$15.70

PCB Holder with LED Magnifier

Ideal aid for PCB assembly, soldering work, model making and any application where a third hand is needed. This helping hand has a magnifying glass with LED light that provides continuous light for up to 10 hours. The two strong alligator clips can be adjusted in numerous ways to hold the board as you solder. Heavy cast iron base ensures added stability. Comes complete with a soldering iron holder.



- LED: 2 x White LED
- Lens size: 90(Dia.)mm
- Lens magnification : 2X
- Power: Requires 3 x AAA batteries
- Dimensions:
Overall height: 190mm
Base dimensions: 114(L) x 75(W) x 29(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1987	\$19.95	\$17.95	\$15.95

LED Magnifying Lamp with Third Hand

The multi-purpose tool offers an excellent all round solution, ideal for working on small to medium PCBs, components, soldering etc. The magnifying lamp with integrated 3rd hand is intended for illuminating work areas and it is equipped with a magnifying glass. This device also comes with a soldering iron stand, alligator clips, soldering wire spool holder, sponge as well as a cleaning ball. Powered by 4 AA batteries (not supplied).



- Magnifying glass lens size 90mm
- Magnification: 3x
- LED illumination: 16 LEDs
- Neck (for magnifying glass) length: 265mm
- Neck (for alligator clips) length: 250mm
- Sponge size: 30 x 50mm
- Base size: 190 x 170mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1989	\$44.95	\$40.45	\$35.95

FUME EXTRACTOR

Solder Fume Extractor

Designed to remove dangerous solder fumes from the work area. Suitable for use in production lines, service centres, R&D workbenches or the hobbyist. It incorporates a ball bearing high volume fan to maximise airflow which is directed upwards at the rear of the unit to aid in safe dispersion of fumes. ESD safe.



- Spare filter - sold separately
Cat. TS-1581
- Dimensions: 260(H) x 200(W) x 170(D)mm

Don't pay silly prices elsewhere. This one works fine.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fume Extractor	TS-1580	\$69.95	\$62.95	\$55.95
Spare Filter	TS-1581	\$9.95	\$8.75	\$7.75

AEROSOLS

Lithium Grease

Long-lasting heavy duty lubricant grease for bearings, sliding mechanisms, battery terminals, chains, sprockets or other moving parts. White in colour so it forms a kind of thick, milky sea in the lubricated area. Reduce friction, protects against corrosion.

- 400 gram



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1015	\$9.95	\$8.75	\$7.75

INOX-MX3 Lubricant, Corrosion Inhibitor

This product is similar to popular water displacement products EXCEPT that it does not contain silicone or kerosene based solvents etc. Indeed, it is so benign it can be used around food. It is also ideal for seized nuts or screws, freeing up hinges, door locks, as a cutting or tapping & other machining agent. As the product is non-conductive, it is ideal for removing moisture from car distributors, switches, potentiometers, solenoids etc. It does not dry or wash out in water. You will be delighted with this product.

Two sizes are available:

Cat. NA-1022 125g Pump Pack (can be sent by post)

Cat. NA-1024 300g Aerosol Spray (can't be sent by post)



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	Spray Pump NA-1022	\$10.95	\$9.85	\$8.75
	Spray Can NA-1024	\$15.95	\$14.35	\$12.75

PTFE Dry Lubricant Spray

This water displacing PTFE lubricant is formulated to provide a dry, lubricating film that is perfect for use with electronic & mechanical assemblies, chains & sprockets, rollers, runners, & power tools etc. It prevents rusting on ferrous metals and helps loosen stiff or sticking parts. The spray can be used in automotive, marine and household environments.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	175g NA-1013	\$17.95	\$15.95	\$14.35

Contact Cleaner Lubricant

A blend of non CFC solvents and RF contact treatment oil. Ideal for cleaning and lubricating non-arcing contacts and mechanisms. Can be used for cleaning & lubricating all types of contacts.

- Safe on most plastics.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	175g NA-1012	\$11.50	\$10.35	\$8.95

Circuit Board Lacquer

Non CFC ozone safe propellant. Premium quality flexible coating to protect printed circuit boards from humidity and environmental attack. Special solder through lacquer so previously coated boards can be soldered.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	175g NA-1002	\$11.50	\$10.35	\$8.95

Electronic Circuit Board Cleaner

Non CFC ozone safe propellant. It may not be obvious, but many circuit problems occur when flux and other contaminants (even finger prints) remain on the PCB causing 'leakage' between tracks. If you work with RF, high impedance (i.e. FET Op-Amps etc), ioniser or other circuits, PCB cleanliness is a MUST. The electronic circuit board cleaner is a spray that dissolves flux residues & grime leaving the track work and board absolutely clean. We then recommend that you 'tropicalise' the board with circuit board lacquer (NA-1002)



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	175g NA-1008	\$11.50	\$10.35	\$8.95

Dust Remover

Non CFC. Non flammable gas which allows removal of dust from electronic, electrical and optical devices. It does not leave residues and is non toxic and non conductive.

- Much safer than flammable versions sold elsewhere
- 250 grams.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	250g NA-1018	\$19.95	\$17.70	\$15.70

Freezing Spray

Non CFC ozone safe propellant. Instant freeze spray for rapidly cooling components to detect intermittent thermal faults, dry joints and overheating problems.

- Non-flammable.
- 250g size.

Please note Aerosols cannot be shipped by air



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	250g NA-1000	\$19.95	\$17.70	\$15.70

Butane Gas

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves.

- Includes filling instructions.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	150g NA-1020	\$5.95	\$5.25	\$4.75

Isopropyl Alcohol 99.8% Spray

Isopropyl alcohol is one of the most useful service aids you can have around. It has many of uses such as head cleaning, surface cleaning and prep, contact cleaning, stain removal in the laundry etc. It's also a medical-grade surface disinfectant and is ideal for cleaning your windscreen before you put your new rego label on. Easy to use pump pack spray bottle & dries quickly.

- 99.8% concentration
- 250ml bottle - Cat. NA-1066
- 300 gram Aerosol Can - Cat. NA-1067



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	250ml NA-1066	\$8.95	\$7.95	\$6.95
	300g NA-1067	\$9.95	\$8.75	\$7.75

Electronic Cleaning Solvent

Non CFC ozone safe propellant. A highly efficient fast drying solvent of high purity. For use on delicate electronic, electrical & precision mechanical assemblies (i.e. tuners, switches, plugs, sockets, relays, pots, etc).



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	175g NA-1004	\$11.50	\$10.35	\$8.95

Spray-On Contact Adhesive

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet in/on speaker cabinets etc.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	400g NA-1504	\$16.95	\$14.95	\$13.35

WORKBENCH EQUIPMENT

ADHESIVE & INSULATING TAPES

ADHESIVES

3 Second Super Glue

Ideal for plastics, wood, rubber, glass, metal and ceramics. It sticks in seconds and needs no clamping. Supplied in a small tube of 3 grams.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NA-1500	\$1.90	\$1.70	\$1.50

Epoxy Bond 34ml

Two part epoxy resin-based adhesive recommended for use where a quick set high-strength adhesive is required. Bonds in approximately 4 minutes to give a colourless, permanent bond. Maximum strength after 1 hour. Ideal for rigid plastics, metal, glass, concrete, china & pottery. Supplied in dual tubes.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NA-1510	\$6.95	\$6.25	\$5.55

J-B Weld Epoxy

The world's finest cold-weld compound. It's an easy, convenient and inexpensive alternative to welding, soldering and brazing. It's a two-part epoxy resin and when mixed together forms a compound as tough as steel. Use it as adhesive, plug filler, sealant or electrical insulator. Like metal, it can be formed, drilled, ground, tapped, machined, filled, sanded and painted. It has an open time of about 30 minutes sets in 4-6 hours, and cures fully in 15-24 hours. It's waterproof, petroleum, chemical, and acid-resistant; resists shock, vibration and temperature variations. Super strong, non-toxic and cleans up with soap and water before setting. Bonds almost any combination of iron, steel, copper, aluminium, brass, bronze, pewter, porcelain, ceramic, marble, glass, PVC & ABS, concrete, fibreglass, wood, fabric - just about any porous/non-porous material.



- Mechanical properties (kPa): Tensile strength: 27300
Adhesion: 12400 / Tensile Lap Shear: 7170
- Shrinkage: 0% / Heat resistance: 260° Celsius
- Contents: 25ml

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NA-1518	\$14.95	\$13.35	\$11.70

Liquid Electrical Tape/Thread Locker

118ML CAN

This liquid can be used instead of insulation tape. Simply brush it on and it will insulate and seal out moisture. Once dry, it is acid & salt resistant and won't crack, peel or harden even under extreme conditions. This is a very versatile product and can be used for such diverse applications as stopping screws from vibrating loose or ropes unravelling. Available in two colours.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
Black	NM-2832	\$29.95	\$26.95	\$23.95
Red	NM-2834	\$24.95	\$22.35	\$19.70

28G TUBES

- Handy 28g tube

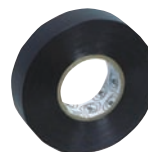


	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
Black	NM-2836	\$15.95	\$14.35	\$12.75
Red	NM-2838	\$15.95	\$14.35	\$12.75

TAPE

PVC Insulation Tape - 20m

High quality insulation tape suitable for wrapping electrical wires.

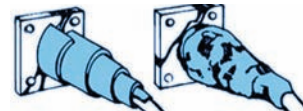


- Tape thickness: 0.18mm
- Roll Length: 20m
- Self-Extinguished within 2 seconds after being on fire
- Voltage breakdown: 8.0kV

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
Black 20m	NM-2856	\$1.65	\$1.45	\$1.30

Coax Seal Tape

This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.



- 12(W)/mm x 1.5(L)m
- Used by NASA & US Military

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
1.5m	NM-2828	\$12.95	\$11.35	\$10.35

PVC Insulation Tape

Top quality PVC tape.

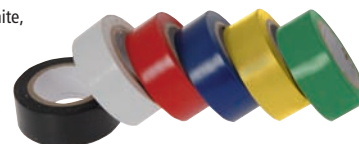
- Two sizes and six colours available
- 18mm wide



↑	Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	Black	5m	NM-2800	\$1.25	\$1.10	\$1.00
	Blue	20m	NM-2801	\$2.75	\$2.45	\$2.20
	Red	20m	NM-2802	\$2.75	\$2.45	\$2.20
	Black	20m	NM-2803	\$2.75	\$2.45	\$2.20
	White	20m	NM-2807	\$2.75	\$2.45	\$2.20
	Ylw/Gn	20m	NM-2804	\$2.75	\$2.45	\$2.20

Insulation Tape - 5m - 6 Pack

Contains one roll each of black, white, red, blue, yellow and green.

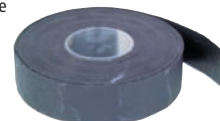


- 19mm wide.
- Each 5 metres in length.
- Pack will vary from picture.

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
Pkt. 6	NM-2806	\$3.95	\$3.45	\$3.15

Self Amalgamating Tape - 10m

This insulating tape will "cure" into a single mass (once applied) to help seal and waterproof cable, wires or even pipes. The tape has good corona resisting properties and can be used on high voltage cables. Useful where water and chemical resistance is important.



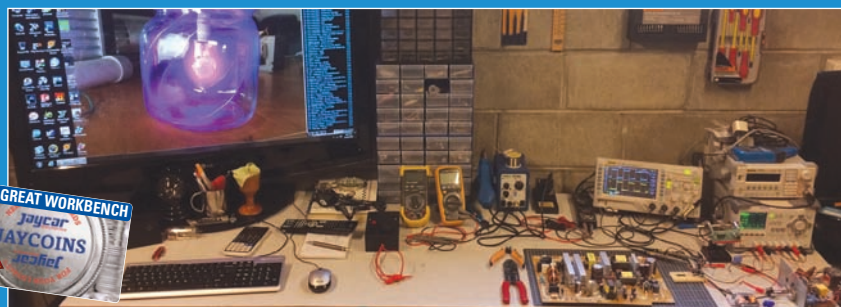
- Corona resistant
- Chemical resistant
- Self amalgamating
- Length: 10 metres

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑				
10m	NM-2826	\$19.95	\$17.70	\$15.70

Workbench sent to us by: Dan Jaycar Store: Fairy Meadow (Wollongong)

My electronics bench where I have spent the last 7 years tinkering. Plenty of Jaycar stuff has seen this bench over the years!

For more details, visit:
www.jaycar.com.au/workbench

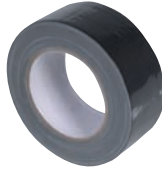


TAPE (CONTINUED)

Gaffer Tape - 25m

This is not your cheap plastic stuff. It is the genuine cloth-backed tape that you can split with your thumbnail. This waterproof tape is black in colour, low sheen and is the industry standard 48mm wide. Commonly called "100 mile an hour" tape, or "gaffer" tape, it was originally developed for the air conditioning industry.

- It is very adhesive and very strong
- Ideal for taping down leads on stage
- Repairing flexible duct work
- Other public address setups
- Holding things together in general. A must in every toolbox!



⬆			Cat.	Qty 1+	Qty 4+	Qty 10+
	Black	25m	NM-2810	\$14.95	\$13.45	\$11.95

Nashua Gaffer Tape - 40m

PREFERRED BY THE PROFESSIONALS
Genuine Nashua brand Gaffer tape. Professional quality 40 metre rolls in both black and silver. Leaves no residue behind and sticks to most clean surfaces, including carpet. 48(W)mm x 40(L)m. Ideal for:

- Outdoor concerts
- Theatre
- Television studios
- Display exhibitions
- School productions
- Car racing



⬆		Cat.	Qty 1+	Qty 4+	Qty 10+	
	Black	40m	NM-2812	\$34.95	\$31.45	\$27.90
	Silver	40m	NM-2814	\$34.95	\$31.45	\$27.90

Genuine "Gaffer" Brand Tape in Hi-Viz Colours - 10m

Genuine made-in-USA 24mm wide x 10m roll in Hi Viz fluoro green or hot pink. Matte finish. Ideal for highlighting a piece of equipment, avoiding a hazard, etc.. 100's of uses.

- Waterproof
- 24mm wide x 10m



NM-2813

NM-2815



↑		Cat.	Qty 1+	Qty 4+	Qty 10+	
	Chrome Fluoro Green	10m	NM-2813	\$14.95	\$13.45	\$11.95
	Hot Fluoro Pink	10m	NM-2815	\$14.95	\$13.45	\$11.95

Double Sided Mounting Tape

Thousands of uses, from mounting PCBs in your project to putting up your Nerd Perks workshop guide. Both are double-sided and the NM-2821 is also foam-backed.

- 12mm wide
- Two roll sizes



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
10 metres	NM-2821	\$4.95	\$4.45	\$3.90
25 metres	NM-2823	\$3.95	\$3.45	\$3.15

UGlu® Industrial Glue Strips

Make quick repairs without tools. Simply cut a strip to the size you need, then fix just like double-sided tape to create a permanent, instant bond. Bonds to just about anything - carpet, plastic, canvas, wood, metal, tile, plasterboard, cement, paper, glass, even on rough surfaces. Non-toxic, acid free, no mess. Millions of uses at home, office and workshop. Pack contains eight 75 x 30mm strips.



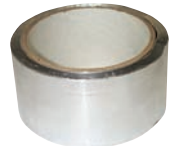
- Instant bond, permanent hold
- Waterproof and weatherproof
- Removable - Safe for kids to use
- Made in USA

⬆		Cat.	Qty 1+	Qty 4+	Qty 10+	
	Pack of 8	75 x 30mm	NA-1522	\$8.95	\$8.05	\$7.15

Aluminium Foil Tape - 50m

To be used in any number of situations including RF shielding.

- Foil thickness: 0.04mm
- Raw material: Aluminum foil, Acrylic-based adhesive
- Width 25mm or 50mm
- Application Temp.: -20 to 120°C



⬆		Cat.	Qty 1+	Qty 4+	Qty 10+	
	50mm	50m	NM-2860	\$17.95	\$15.95	\$14.35
	25mm	50m	NM-2862	\$11.95	\$10.70	\$9.50

Silicone Rescue Tape - Gaffa Tape on Steroids

Rescue tape is a self-fusing tape made of the highest quality materials for a permanent air-tight and water-tight seal in emergency situations. Just wrap it around a troublesome leak and it will bond in seconds. The tighter you stretch the tape, the quicker it will bond. Brilliant!



- Resists fuels, oils, acids, solvents, salt water, road salt, UV rays
- Remains flexible to -60°C (-85° F)
- Operating temp range: -65°C to 260°C / -85°F to 500°F
- Continuous temp range: -60°C to 200°C / -76°F to 392°F
- Cold brittle point: -85° F / -65° C
- Tensile strength (Min.): 700 psi
- Elongation (Min.): 300%
- Tear strength (Min.): 85 ppi
- Bond strength (Min.): 2 Lbs
- Water absorption (Max.): 3% By Weight
- Dielectric strength (Min): 400 volts/mil (8,000 V/20 Mil)
- Measures 1" x 12 FT (Approx: 25.4mm x 3657.6mm)



RESCUE TAPE

You can repair a burst radiator hose with this!

↑	Cat.	Qty 1+
1" wide x 12 feet long	NA-2829	\$29.95

BUY IT ON THE WEB...

Shop for all these
Jaycar Electronics
products on our
website - and check
out our latest products
and special offers!



Workbench sent to us by: Chris Jaycar Store: East Kew

I have been restoring and servicing Pinball machines in the home market for 31 years and could really use a 3D printer to make hard to find pinball parts.

The image is of our workshop where I have about 45 Pinball machines and about 60 retro arcade tables waiting for restoration.

For more details, visit:
www.jaycar.com.au/workbench



SIDE CUTTERS & LONG NOSE PLIERS



TH-1897



CS

127mm - Precision Angled Side Cutters

Precision side cutters that are ideal for fine PCB work. They will easily cut leads flush with the board's surface. The cutters are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
127mm	TH-1897	\$12.95	\$11.65	\$10.35



TH-1890

SS

115mm - Stainless Steel Side Cutters

High quality small side cutters that have thick (2mm) blades and comfort soft plastic handles which are spring loaded.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
115mm	TH-1890	\$13.95	\$12.35	\$10.95



TH-2332



CS

110mm - Fujiya Precision Side Cutters

Beautifully engineered side cutters for the discerning tradesman. These cutters feature high quality tool steel construction and are perfect for cutting super fine wire as well as general workshop use. They aren't just good to look at, they are tough as well and can cut steel wire up to 1.6mm without harm. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 57~61
- Soft grip handle

Japanese Made

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH-2332	\$29.95	\$27.95	\$23.70



TH-1922



CS

135mm - ESD Safe Side Cutters

Specifically for ESD work. High quality Japanese designed, Italian manufactured cutters especially for static-sensitive applications.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
135mm	TH-1922	\$32.95	\$29.45	\$26.50



TH-1891

CS

150mm - Carbon Steel Precision Side Cutters

These cutters are made from the same high carbon steel as our TH-1885 long nose pliers and are designed for sharp cutting in precision wiring. They have insulated soft-touch handles and a coil return spring for fatigue free use.

ENGINEER®

Japanese Made



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH-1891	\$39.95	\$35.90	\$31.90



TH-1887

CS

150mm - Precision Long Nose Pliers

Precision, slim line long nose pliers that are ideal for working in confined areas. They have serrated jaws so you can get a firm grip on the item you're holding. The pliers are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH-1887	\$11.95	\$10.70	\$9.50



TH-1893

SS

145mm - Stainless Steel Long Nose Pliers

The partner to our TH-1890 stainless steel cutters. These have half round smooth gripping jaws perfect for adjusting and bending components, picking up that dropped nut, etc. Comfortable soft plastic handles which are spring loaded.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
145mm	TH-1893	\$13.95	\$12.35	\$10.95



TH-2334

Japanese Made



CS

110mm - Fujiya Precision Long Nose Pliers

These are the perfect companion for our TH-2332 precision side cutters and are made to the same exacting specifications. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 53~57
- Soft grip handle

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH-2334	\$29.95	\$27.95	\$23.70



TH-1885

CS

125mm - Carbon Steel Precision Long Nose Pliers

These quality pliers are made in Japan from the same high carbon steel that is used to make professional chef's knives. The pliers feature serrated jaws and a box joint to provide a precise action and strong grip. The coil spring ensures smooth, fatigue-free use. Insulated soft touch handles.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
125mm	TH-1885	\$34.95	\$31.45	\$27.90

ENGINEER®

Japanese Made



TECH TALK!

To avoid confusion we have put a small logo "SS" nominating which tool is made out of "stainless". "CS" means carbon steel.

CUTTERS & PLIERS SET

Stainless Cutter / Pliers Set

Set of five 115mm cutters and pliers for electronics, hobbies, beading or other crafts. Stainless steel with soft ergonomic grips.

Contents:

- Flush cutters
- Long nose pliers
- Flat nose pliers
- Bent nose pliers
- Round nose pliers

SS



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1812	\$29.95	\$27.95	\$23.70

TECH TALK!

WHEN STAINLESS STEEL IS NOT THE BEST

We are big fans of stainless steel. We love it in tools, fasteners & many building products. It is not, however, always the best material. Top chefs will tell you, for example that the best knives are not stainless. They are made out of carbon steel.

Why?

Carbon steel is far harder & tougher than stainless. The problem of course is that carbon steel will rust if not maintained. In our search for the best hand-tools we have decided to stock two very high quality Japanese-made products made out of carbon - steel. They are not cheap but they are for the professional user whose time is money. Like carbon steel knives, rust is not a problem if used constantly.

They will, however, pay you back every day because they will stand up to heavy wear & tear. For those who have only occasional use for hand tools, we sincerely recommend stainless steel products.

PLIERS & CUTTERS

160mm (6") Side Cutters - Insulated

This drop forged alloy tool is made to the same standards as our TH-1984 combination pliers. It is just as tough and will also cut piano wire up to 1.6mm. This is a quality tool and designed for dedicated wire cutting. It has comfortable double inset handles.

- 160mm/6" long.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1985	\$24.95	\$22.45	\$19.95

170mm (6.5") Long Nose Pliers - Insulated

You can see the quality German design in these strong and attractive pliers. They are drop forged to the same standards as the other tools in the range and have the same cutting capacity - up to 4.0mm electrical wire. A very attractive tool with comfortable handles. The high quality manufacture means they can take the work and last for ages. This could be the last pair of long nose general purpose pliers you need to buy!

- 170mm / 6.5" long.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1986	\$24.95	\$22.45	\$19.95

180mm (7") Bull Nose Pliers - Insulated

Strong, Tough & Reliable. These high quality drop forged alloy steel pliers are a professional tool and manufactured to the rigid German DIN standards for electrical safety & mechanical strength. They are for serious tradesmen who need a quality tool. These pliers will cut hard (piano wire) wire up to 1.6mm & soft (annealed copper, aluminium silver etc.) up to 4.0mm. Non slip double inset handles are comfortable to hold.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1984	\$24.95	\$22.45	\$19.95

SPECIALTY PLIERS

175mm - Screw Removing Pliers

This tool is basically designed to remove, by brute force, a hopelessly stripped out head of any type of small non-countersunk screw. The secret is an oval-shaped serrated hole in the end of the plier. You place the plier over the head of the screw, grip and rotate the plier. This system applies a lot more torque to the head of the screw than a drill bit ever could. It's reminiscent of the plier that a dentist used to extract your tooth!! Its Japanese manufacturer has provided a beautifully made and finished product. Suitable for any screw in the range of 2.0 to 5.0mm or so, although it will work on larger screws to lesser effect.

- 175mm long
- Soft grip handle



Japanese Made



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2330	\$24.95	\$23.35	\$19.70

75mm (3") Sheet Metal Bending Pliers

Bend sheet metal easily with this heavy duty offset hand tool. Features strengthened rivets and dual layered pitted handle for a firm grip.

- Jaw width: 75mm
- Jaw depth: 30mm
- Overall length: 210mm
- Thin gauge aluminium, brass, etc. ok. Not suitable for steel over 0.8mm thick.



See page 54 for
Vice Mounted Panbrake
Sheet Metal Benders

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2336	\$24.95	\$22.35	\$19.70

OTHER TOOLS

Inspection Mirror

Low cost inspection mirror. Ideal for looking into hard to get places. Length: 160mm, mirror diameter: 24mm.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1872	\$4.95	\$4.45	\$3.90

Forceps (Haemostats)

These clamps are made of stainless steel and can be locked on to the item they are holding. They are 130mm long, so they are ideal to reach into hard-to-get-at places. Also great for holding components etc., whilst soldering.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1755	\$8.95	\$7.95	\$6.95

CABLE STAPLE GUN

Cable Staple Gun

Take the pain out of cable installation. Instead of trying to pound away with a hammer, simply staple the cable to eaves, rafters or joists. The staples have an integral plastic cable clamp that holds the cable firmly in place. The gun takes a variety of staples sizes to accommodate cables up to 8.0mm diameter.

CABLE STAPLE GUN 4 - 8MM Cat. TH-2610

- Includes gun, 2 interchangeable blades and 200 staples.

CABLE STAPLES REFILL 4 - 6MM PK 200

Cat. TH-2611

- Round cable: 4 - 6mm
- Flat cable: 2.5 - 4.0mm high and <8.0mm wide
- Suits: RG58, RG59, Cat5/6, Alarm Cable, Flat telephone cable, 10A T&E, Extra HD Fig8

CABLE STAPLES REFILL 6 - 8MM PK 200

Cat. TH-2612

- Round cable: 6 - 8mm
- Flat cable: 4.5 - 6.3 high and <10.3mm wide
- Suits: RG6Q, RG8, 8GA, 10A Mains Flex, Jumbo Fig8



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	Cable Gun TH-2610	\$29.95	\$26.95	\$23.95
	Refill Staples 4-6mm Pkt 200 TH-2611	\$10.95	\$9.85	\$8.75
	Refill Staples 6-8mm Pkt 200 TH-2612	\$10.95	\$9.85	\$8.75

HAND LOTION

Hand Protection Lotion

A unique lotion to keep your hands clean while you are at work. It protects your hands and body parts from dirt, grease, oil, ink and harsh contaminants. It also has anti-static properties to prevent ESD (electrostatic discharge) build-up, making it ideal for when working on ESD sensitive circuitry. To use simply wash your hands with soap and water, and then apply a small amount of Hand Protection Lotion to your hands, rub until it fully absorbed into the skin and wash your hands again with soap and water once the job is done.

Available in two sizes. Grab a bottle or two for your workshop, lab, office, art studio or home.

- Antistatic properties
- Moisturises skin
- Non-Greasy
- Does not impair grip



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	59ml Pocket Sized Squeeze Bottle NA-1200	\$12.95	\$11.35	\$10.35
	354ml Hand-Pump Bottle NA-1202	\$39.95	\$35.95	\$31.95

DON'T FORGET THESE ACCESSORIES:

Professional Leather Tool Utility Belt

Strap this to your waist to keep your most used tools on you at all times. The belt size is fully adjustable and features a number of pockets and 2 leather loops suitable for carrying a hammer, measuring tape and more.

- 2 large main pockets
- 2 front stitched pockets
- 6 small pockets
- 2 leather hammer loops
- Adjustable web belt with buckle

Note: Tools and accessories not included



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6373	\$19.95	\$17.70	\$15.70

WORKBENCH EQUIPMENT

CRIMPING TOOLS

CRIMPING TOOLS - QUICK CONNECTORS

5 Way Crimping Tool - Auto Type

This crimping tool will do the following:

- Cut wire
- Crimp insulated & non insulated terminals
- Strip wire with diameters 0.75, 1.0, 1.5, 2.5, 4.0 & 6.0mm
- Cut bolts with diameter M2.6, M3.0, M3.5, M4.0 & M5.0



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1828	\$8.95	\$7.95	\$6.95

Crimping Tool for Non-Insulated Lugs

A quality tool at a budget price. Solid box joint and crimping dies, comfortable handles and spring-loading make this an easy crimper to use all day. It handles non-insulated lugs from 14-18 AWG and 22-26 AWG and also includes a built-in wire cutter.



	Cat.	Qty 1+	Qty 3+	Qty 6+
185mm long	TH-1834	\$14.95	\$13.35	\$11.70

Automotive Crimp Tool with Connectors

Unlike other automotive crimp pliers, this excellent tool comes with 80 of the most popular automotive connectors and NOT a bunch of junk you will never use. The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts. Every car enthusiast should have one of these.

Included connectors:

- 8 each of male & female blue bullets
- 8 each of male & female red bullets
- 8 each of male & female blue spades
- 8 each of male & female red spades
- 8 x red eye connectors
- 8 x blue butt joiners



See page 237 for our full range of terminals

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1848	\$14.95	\$13.45	\$11.95

Heavy Duty Ratchet Crimp Tool for Insulated Terminals

Manufactured from quality carbon steel and fitted with hardened and tempered jaws. Features a chemically blackened finish for improved corrosion resistance and heavy duty PVC handles to provide operator comfort. Crimping pressure is precisely adjustable and a ratchet release lever is fitted to enhance safety. Has easy identification for crimping Red, Blue, and Yellow Terminals. Suitable for crimping insulated terminals from 0.5mm to 6.0mm in size.



	Cat.	Qty 1+	Qty 3+	Qty 6+
220mm	TH-1829	\$39.95	\$35.90	\$31.90

CRIMPING TOOLS - COAX

Compression Crimping Tool - Universal

A precision crimp tool ensuring correct crimping pressure is applied for reliable, trouble-free compression of BNC, RCA, Min-F and F-type coaxial connectors. Adjustable compression depth that provides desired crimping length.

- Works with RG59 and RG6 coaxial cables.

Note: This tool is not suitable for our PP-0708 Foxtel Approved F59 Plug



	Cat.	Qty 1+	Qty 3+	Qty 6+
146mm long	TH-1800	\$24.95	\$22.35	\$19.70

Compression Crimping Tool for F-Type Plugs

A compact compression tool designed for our Foxtel approved F-type plug (PP-0708). A channel accurately positions the plug, and a spring-loaded clamp holds the cable in position. These features and leverage action of the handle ensure easy F-type compression crimps can be performed quickly and easily time after time.



	Cat.	Qty 1+	Qty 3+	Qty 6+
143mm long	TH-1803	\$29.95	\$26.90	\$23.70

Heavy Duty Coax Crimping Tool

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm, 9.12mm & 10.3mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1832	\$29.95	\$26.95	\$23.95

Hex Ratchet Crimping Tool

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: 1.72mm, 5.49mm, 8.23mm and 9.14mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1833	\$39.95	\$35.90	\$31.90

Ratchet Crimping Tool for F-Type Connectors

A strong, heavy duty tool for crimping F-Type CATV connectors onto RG6 or RG59 coax cable. Ideal for cable TV or RF distributions system installers. The tool features a secure ratchet mechanism for accurate and reliable crimps.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1831	\$39.95	\$35.90	\$31.90

Ratchet Crimping Tool for BNC/TNC Connectors

A heavy duty tool for crimping BNC/TNC connectors onto RG58/59/62 coax cable. The tool features a secure ratchet mechanism for accurate and reliable crimps.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1846	\$39.95	\$35.90	\$31.90

Heavy Duty Terminal Crimper

Commonly used for crimping lug/eye terminals onto heavy gauge power cables. The lever arm action makes for a good solid hex crimp on the terminal. Features a built in rotating die which can be rotated to suit terminals for 6/10/16/25/35/50mm² cable (10AWG-1/0AWG).

- Suitable for use with our PT-4934 to PT-4939 range of eye terminals.
- 450mm long.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1849	\$49.95	\$44.90	\$39.90

See page 230 for F type crimp plugs

RELATED PRODUCTS

F Connector Seating Tool

This 3 way tool assists in the connection of F type connectors. Includes flaring tool for RG6 and RG59 cable and pre-threading tool. Measures: 60mm diameter



	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits RG6/RG59	TH-1883	\$11.95	\$10.70	\$9.50

CRIMPING TOOLS (CONTINUED)

Heavy Duty Crimp Tool with Quick Interchangeable Dies

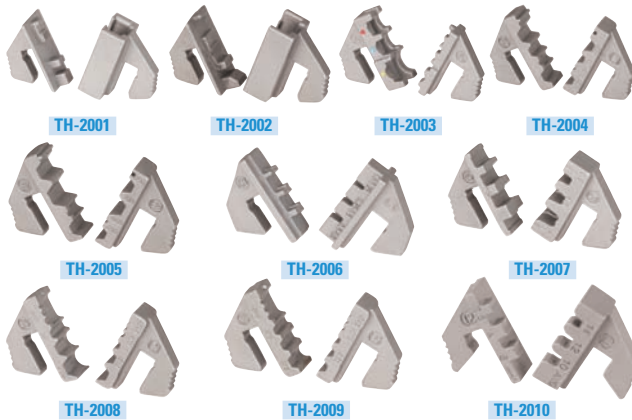
This heavy duty, ergonomic crimper allows you to quickly interchange the dies by hand, without the need for a screwdriver! Crimping is made easy with its ratchet mechanism designed for maximum power or quick release. Its ratchet release function allows for easy adjustment prior to completing the crimp, in case of incorrectly placed terminal.

This crimper uses interchangeable dies (available separately) that can be quickly and easily changed. Buy only the ones you require for each job! Dies available for telephone and network plugs, insulated terminals, BNC/TNC connectors to suit RG58/RG59/RG62 coax, and even F-type CATV connectors to suit RG59/RG6 coax. An invaluable tool for the workshop or technician's tool-kit.

See CAT5e & CAT6 cable on page 200.



DIES TO SUIT



	Cat.	Qty 1+	Qty 3+	Qty 6+
Heavy Duty Crimp Tool	TH-2000	\$49.95	\$44.90	\$39.90
6P6C RJ11/12	TH-2001	\$17.95	\$16.10	\$14.35
8P8C RJ45	TH-2002	\$17.95	\$16.10	\$14.35
Insulated Terminals	TH-2003	\$17.95	\$16.10	\$14.35
BNC/TNC RG58/59/62	TH-2004	\$17.95	\$16.10	\$14.35
F Connectors CATV RG6/59	TH-2005	\$17.95	\$16.10	\$14.35
Non-Insulated Terminals 26-18AWG	TH-2006	\$17.95	\$16.10	\$14.35
Non-Insulated Terminals 20-10AWG	TH-2007	\$17.95	\$16.10	\$14.35
SMA/Fibre Optic 1.09-6.48mm	TH-2008	\$17.95	\$16.10	\$14.35
SMA/Fibre Optic 1.07-4.52mm	TH-2009	\$17.95	\$16.10	\$14.35
PV Connector	TH-2010	\$29.95	\$26.95	\$23.95

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Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

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*Conditions apply. See page 7 for details



RELATED PRODUCTS

FROM
\$5.95
YN-8015



WALL PLATES

P227

FROM
\$4.95
YN-8028



KEYSTONES

P227

FROM
\$39.95
WB-2023



CAT5E CABLE

P200

FROM
\$7.95
PP-1436



MODULAR PLUGS

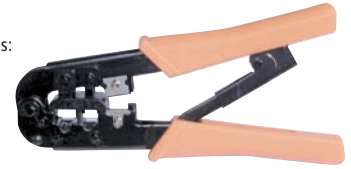
P344

CRIMPING TOOLS - MODULAR

6P/8P Modular Crimp Tool

This tool will crimp the following plugs: 6P2C, 6P4C - RJ12, 6P6C - RJ12, 8P - RJ45.

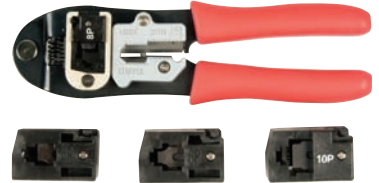
- It also cuts and strips the cable.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1935	\$19.95	\$17.95	\$15.95

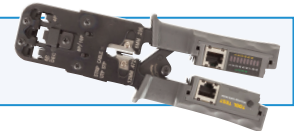
4P/6P/8P/10P Modular Crimp Tool

This great tool will cut, strip and crimp flat telephone cable, or Cat5e type cable also. Constructed from high quality carbon steel, it features interchangeable dies and ergonomic design. It also has a brace to lock them closed.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1936	\$44.95	\$40.45	\$35.95

See page 323 for Modular Crimp Tool with Network PoE Tester



CAT5 TOOLS

Cat5 Punch-Down Tool / Stripper

LOW-COST

This versatile little tool will strip wire up to 5 to 6.2mm diameter, and doubles as a punch-down tool for 110/88-type terminals, with blade.



Made from poly-resin plastic, with steel cutters this lightweight tool could easily fit in the pocket or tool kit.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1738	\$8.95	\$7.95	\$6.95

Cat5 Punch-Down Tool - Adjustable

It has a turnable body, adjustable impact pressure and a storage compartment within the handle for holding a spare blade. Frame made of polyacetal resin with fibre glass orange handle. Supplied with 88 blade.

Spare blades see TH-1743 below.

Specifications	TH-1740
Impact pressure	Low: 10 +/- 2 kg (standard wire)
High	15 +/- 2kg (larger wire)
Length of tool	152mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1740	\$22.95	\$20.35	\$18.35

Blades for Cat5 Punch Tools

Suits the punch tool - TH-1740. Made from hardened SNCM-21, these blades are both changeable and reversible, and can be changed by hand, no screwdriver necessary. Blade retaining pressure within 4-6 kg. One end of each blade has a cutter for that extra-neat termination, the other end is plain for those "linked" blocks.



	Cat.	Qty 1+	Qty 3+	Qty 6+
110 Krone	TH-1743	\$17.95	\$15.95	\$14.35

WORKBENCH EQUIPMENT

STRIPPING & CUTTING TOOLS

CABLE STRIPPERS & CUTTERS

Budget Coax Cable Stripper

Strips insulation from any coax cable and ideal if you only need to strip coax occasionally. Simply insert the cable, twist and turn, then use the other end of the tool to remove the inner insulation.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1815	\$4.95	\$4.45	\$3.90

Pocket Wire Stripper

Strips anything from 2G to RG6 coax. Easy to use and small enough to take anywhere on the job.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
120mm long	TH-1817	\$14.95	\$13.35	\$11.70

Wire Stripper

Great way to strip all sorts of cable without damaging the conductors.

- Automatically adjusts to insulation diameter
- One hand operation
- Spring return.

Features a Finger Guard



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1824	\$16.95	\$14.95	\$13.35

Rotary Coax Stripper

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable.
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1820	\$19.95	\$17.95	\$15.95

Stainless Steel Wire Stripper / Cutter / Pliers

A high quality precision wire stripper and cutter that will strip wire sizes from 0.6mm to 2.6mm. It is spring-loaded with locking jaws, and has soft rubber handles for added comfort.

- Strips stranded wire from 12-24 AWG and solid wire from 10-22 AWG
- Includes wire cutter, pliers and loop hole to bend hooks in wires
- Will also cut steel wires up to 3.0mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
164mm long	TH-1841	\$15.95	\$14.35	\$12.70

Heavy Duty Wire Stripper / Cutter / Crimper with Wire Guide

Designed for easy wire stripping. The alloy steel can strip all types of cable from AWG 10-24 gauge (0.13 - 6.0mm), and the wire guide ensures the correct length is stripped time and time again. It incorporates a precision cutting blade for easy wire cutting. It also features quality crimping jaws. Capable of removing outer insulation from main T & E cable



- Insulated terminals (1.5 - 6mm)
- Non-insulated terminals (1.5 - 6mm)
- For auto ignition terminals (7-8mm)
- This is the best all round wire tool we've seen for a long time
- Spring return

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
204mm long	TH-1827	\$29.95	\$26.95	\$23.95

SHEARS

180mm (7") High Quality Stainless Steel Electrical Shears

Slice through soft electrical cable with ease. These precision spring loaded stainless steel electrical shears will cut soft wire up to 22sqmm and make light work of cable ties, heatshrink, light hook-up wire and cable braid etc. The shears feature insulated handles and a convenient, thumb operated lock to keep them closed when not in use. Ideal for cutting ribbon cable



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
180mm long	TH-1757	\$7.95	\$6.95	\$6.25

140mm (5.5") High Quality Electrical Shears

These shears offer impressive cutting ability with finely honed and serrated blades. Great for cutting insulation, heatshrink, spaghetti and light duty hook-up wire.

- These shears feature insulated handles.

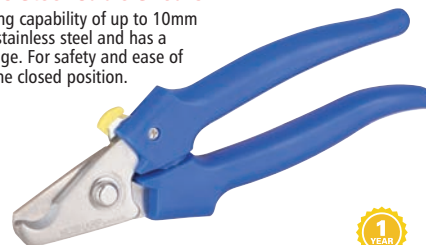


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
140mm long	TH-1758	\$6.95	\$6.25	\$5.50

165mm (6.5") Stainless Steel Cable Shears

This set of cutters has a cutting capability of up to 10mm cable. It is constructed from stainless steel and has a hardened long-life cutting edge. For safety and ease of storage, it can be locked in the closed position.

- Stainless Steel
- Lightweight
- Lockable.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
165mm long	TH-1898	\$19.95	\$17.95	\$15.95

300mm (12") Copper Cable Shears

These super heavy duty cutters feature a precision cutting head forged from carbon steel attached to drop forged steel handles for extra leverage. Designed to cut copper cable up to 35mm² you can slice through just about any cable up to 2 gauge. The handles are coated to prevent corrosion and have rubber grips for operator comfort.

- Dimensions: 310(L) x 90(W) x 40(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
310mm long	TH-1900	\$24.95	\$22.50	\$19.70

Multi Function Cutter/Stripper Tool

This ingenious 2-in-1 tool is the ultimate in space economy for your toolbox. On the one hand, it is a 6 position wire stripper suitable for 10 AWG to 20AWG insulated wire with a micro-grip jaw at the end. Then, just flip the handles around to turn it into a side cutter and crimper!



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1843	\$24.95	\$22.45	\$19.95

ROTARY TOOLS & ENGRAVERS

Micro Engraver

Engrave your valuables for security or insurance. The tiny diamond coated tip spins at 10,000 RPM so you can personalise tools, sporting gear, toys, security ID on valuables etc. Engraves glass, ceramics, metals and plastics. Batteries and case included.

- Tip is replaceable.
- Dimensions: 160(L) x 15(Dia)mm
- Replacement tip sold separately Cat TD-2469



	Cat.	Qty 1+	Qty 3+	Qty 6+
Micro Engraver	TD-2468	\$24.95	\$22.35	\$19.70
Spare Tip	TD-2469	\$6.95	\$6.50	\$5.50

110 Piece 12V Rotary Tool Set

Drill, saw, sand, polish, carve or grind in your workshop or out on the road. 110+ bits and attachments cover every possible task you'll ever need. The rotary tool is rated for 12V at 12,000 RPM. Ideal for hobby or professional use.



• Rotary tool: 12VDC, 16W, 12,000 RPM

Attachments:

- Sanding belts 3 x 6mm
- 5 x Sanding Bands: 1/4" x 1/2"
- 6 x Sanding bands: 1/2" x 1/2"
- 4 x Collets: 1.6mm-2.3mm-3.2x2
- 1 x Dressing Stone 1"x 3/8"
- 1 x Felt Wheel Pointed: 3/8" x 3/4"
- 2 x Rubber Emery Wheel
- 4 x Felt Wheels: 1/2" x 1/4"
- 20 x Sand papers
- 2 x Felt Wheels: 1"x 1/4"
- 1 x Cloth wheel 1"x 1/8"
- 2 x sanding shanks: 1/4"x1/2", 1/2"x1/2"
- 4 x HSS Twist drills: 1.6mm x 2, 2.3mm x 2
- 3 x Mandrels For Wheel
- 5 x Diamond cutters
- 2 x HSS cutter
- 9 x Grinding wheels with Shank
- 3 x Brush
- 30 x cut off wheels
- Heavy duty: 0.8mm
- 1 x Polishing compound
- 1 x mini engraver

	Cat.	Qty 1+	Qty 3+	Qty 6+
12V 110 Piece Rotary Tool Set	TD-2451	\$34.95	\$31.45	\$27.90

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210 Piece Rotary Tool Kit with Flexible Shaft

Flexible shafts are particularly useful for porting heads in engines, but have a multitude of other applications where you need to get into a tight space or get more control of the bit. The kit consists of a powerful mains powered 32,000 RPM rotary tool that you can use with numerous attachments in the usual way, plus a 1m long flexible shaft. The flexible shaft attaches in seconds to give extra versatility. Suitable for modelmaking, automotive, workshop, art, jewellery or sculpture.



Rotary Tool	TD-2459
Speed	10,000 - 32,000 RPM
Power	135 Watts@240VAC
Dimensions	210(L) x 52(Dia)mm
Shaft length	1000mm

Attachments:

- Sanding arbours
- P80 sanding belts
- Sanding discs
- Collets: 2 x 3/32", 2 x 1/8"
- Drill bits: 2 x 1/16", 2 x 3/32"
- Grinding stones: 20 x 4mm wheel, 10 x 4mm wheel, 15 x 10mm cylinder, 12 x 10mm cylinder, 7 x 4mm cylinder, 20 x 10 bullet, 11 x 8mm tapered bullet,
- Tungsten carbide burrs: 3mm straight, ball profiles
- Diamond coated burrs: 4mm ball, 2mm fine cone taper, 3mm pinecone, 4mm cone
- Polishing wheels: 12, 25mm
- Steel, fibre wire brushes
- 30mm cut-off wheels
- 20 x 4mm grinding wheels
- Paint-removing wheel
- 3/8" collet spanner, arbours, shafts, polishing compound.

	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC 210 Piece Rotary Tool Set	TD-2459	\$54.95	\$49.45	\$43.95

GLUE GUNS

Mini Glue Gun - 30W

A glue gun is a handy tool to have around the house. It's fast, easy and simple to use with trigger controlled glue feed. Suitable for toys and models, decorations, furniture, woodwork, cardboard, etc.

- Mains powered
- Requires 7mm diameter glue sticks (2 supplied)

Note: For intermittent use only. Not for production use



GLUE STICKS FOR MINI GUN

To suit the mini glue gun. Dimensions: 7mm dia. x 100mm long

- Suits TH-1997 mini gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini 30W Glue Gun	TH-1997	\$12.95	\$11.35	\$10.35
Glue Sticks Pkt 6 for Mini Gun	TH-1991	\$3.95	\$3.45	\$3.15
Glue Sticks Pkt 50 for Mini Gun	TH-1994	\$9.95	\$8.75	\$7.75

Large Glue Gun - 100W

Great for quick and easy low stress repairs to timber, cardboard, paper and many household materials. It is fast, easy and simple to use with trigger controlled glue feed.

- Mains powered
- Requires 12mm diameter glue sticks (2 supplied)
- Note: For intermittent use only. Not for production use



GLUE STICKS FOR LARGE GUN

Dimensions: 12mm diameter x 100mm long.

- Suits TH-1999 gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Large 100W Glue Gun	TH-1999	\$19.95	\$17.95	\$15.95
Glue Sticks Pkt 6 for Large Gun	TH-1995	\$4.95	\$4.45	\$3.90
Glue Sticks Pkt 45 approx. for Large Gun	TH-1996	\$17.95	\$15.95	\$14.35

WORKBENCH EQUIPMENT DRILLING & METALWORK TOOLS

DRILL & ACCESSORIES

350W 240VAC Electric Drill

A powerful 240V electric drill suitable a variety of tasks around the house or on the job. Features a forward/reverse switch, lock setting, and moulded plastic grip. You can also adjust the speed of the drill when the full power is not required. Will accommodate bits up to 10mm and includes a handy belt clip.

- Mains powered
- Cable length: 1.8m
- Dimensions: 250(L) x 190(H) x 65(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2493	\$39.95	\$35.90	\$31.90

Drill Assistant with Laser Leveller

Drill holes in walls easily, on the level and with no mess. This drill assistant uses vacuum suction to attach to virtually any wall without leaving marks, and features float levels and a laser to ensure the hole you are about to drill is in the right position. There's even a compartment that captures the dust to avoid it falling to the floor.

- Vacuum Suction
- Built-in Laser
- Built-in Level
- Drill guide
- Dust catcher
- Requires 2 x AA batteries
- Dimensions: 238(L) x 100(W) x 48(H)mm



↑	Cat.	Qty 1+
	TD-2151	\$19.95

Universal Drill Press Stand

Convert your standard power drill or rotary tool into a drill press with this adjustable stand. Substantially cheaper than purchasing a full drill press, the stand still has all the necessary features expected in a full size press.

It includes separate adjustments for limiting press depth and drill height so you can change drill position with minimal risk of over-drilling into the stand. The drill collar can be adjusted to suit a variety of tools. Heavy duty cast metal base and frame provides excellent stability.

- Allen key supplied for tightening drill collar
- Drilling depth: Up to 60mm
- Maximum collar diameter: 43mm
- Minimum collar diameter with insert: 35mm
- Dimensions: 497(H) x 350(W) x 160(D)mm



Note: Drill not included

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2463	\$39.95	\$35.90	\$31.90

TAPE MEASURE

1m Key Chain Tape Measure

A handy retractable tape measure to take wherever you go. Durable yellow ABS body with a soft black rubber surround for comfort and grip. Small enough to keep in your pocket or clip to a set of keys.

- Measuring length: 1m
- Scale: Metric & Imperial
- Lockable
- Dimensions: 40(H) x 40(W) x 13(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2500	\$2.95	\$2.60	\$2.30

BENCH VICE

Mini Bench Vice

This sturdy lightweight vice will clamp to surfaces up to 1" thick and hold material up to 2" thick. This handy tool is ideal for hobby work or as a light duty workshop bench vice. Made from strong, lightweight aluminium that won't rust or corrode, the vice will be a useful addition to anyone who needs a third hand!

- Vice jaws are 63.5mm wide and will open to more than 50mm.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1764	\$14.95	\$13.35	\$11.70

270° Rotation Clamp Vice

Rotate the head through 270° to make your work easier. The base will clamp to any bench or table up to 55mm thick and the 40mm jaws will take a job up to 58mm in size. Once in position, the head is easily fixed in position with a quick release lever.

- Base: 115(W) x 94(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1769	\$29.95	\$26.95	\$23.95

Vacuum Bench Vice - 75mm Jaw

This quality vacuum vice is made from hard-wearing diecast aluminium. The vice consists of three-pieces; a vacuum base, ball joint clamp and a 75mm opening jaw with removable soft rubber jaw covers. The 'V' grooved jaws are ideal for holding cylindrical and irregular shapes, making it well suited to small bench jobs such as model building, jewellery making and general PCB/chassis work. The multi-positional ball swivel allows the jaws' working position to be varied through a full 360° axis.

- Stands approximately 160mm tall.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1766	\$39.95	\$35.90	\$31.90

VICE / BENDER

Sheet Metal Bender - Pan Brake Style (Vice Break)

This unit sits in the jaws of your bench vice (100mm+ recommended). It retains itself in the vice with strong recessed magnets. One half consists of the familiar blade that bends the sheet metal. The other half in the 90 degree recess that the blade pushes into. By carefully positioning the sheet, you can perform a perfect 90 degree bend as good as a workshop! The blade is segmented, just like a workshop pan brake, so that you can make partial bends. With a little practice, you will be able to fabricate brackets, small boxes & other metal assemblies like a pro.

Warning: This unit is not particularly cheap. It is, however, very well made. It is cast steel with tool steel pressing components. You need it to be sturdy, otherwise it would break or flex. It will, literally, last a lifetime.

Will fold sheet up to 125 wide, however there are 3 x press segments 2 x 50mm, 1x25mm and these are independently removable by Allen head set screws. Depending on the width of the material you could easily bend steel strips up to 4mm thick and 25mm wide. Aluminium should not be a problem up to 4mm thick & 100mm wide, depending on your vice.

- Dimensions: 125(L) x 30(W)mm both halves



See page 49
for Metal
Bending Pliers



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1763	\$79.95	\$71.95	\$63.95

ELECTRIC SCREWDRIVERS

Electric Screwdriver - 18 bits

A handy electric screwdriver for all those around the house jobs. Features a comfortable moulded grip, reverse and forward modes, and an LED for those hard to see spots. The drill has three adjustable configurations from the traditional gun style to a cylindrical shape for applying extra pressure on stubborn screws or bolts. Also comes with philips, flat, torx and hex bits suitable for most applications.

- Torque: 2.5Nm
- Voltage: 4.8V
- Drill time: 40 mins
- Included bits: Pozzi (PZ0, PZ1, PZ2, PZ3)
- Phillips (PH0, PH1, PH2, PH3)
- Torx (T10, T15, T20, T25)
- Hex (H3, H4)
- Bit Extender
- Mains charger included
- Dimensions: 270(L) x 45(W) x 37(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2497	\$29.95	\$26.95	\$23.95

102 Piece Electric Screwdriver Kit

Features a powerful high torque electric driver and a massive array of stainless steel bits that are sure to get the job done. All packaged in a tough aluminium carry case that will hold and protect your screwdriver, mains charger, and all the bits.

- Screwdriver dimensions: 144(L) x 135(H) x 40(W)mm
- Case dimensions: 250(L) x 153(H) x 88(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2491	\$54.95	\$49.45	\$43.95

SCREWDRIVERS

High Quality Jeweller's Screwdrivers

Each screwdriver has a rotating top, larger handle and a strong chrome vanadium tip providing a comfortable finger/palm rest and an easily turned body. These look very similar to those expensive German ones.



↑	Type	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.0mm Slot Tip	TD-2060	\$3.50	\$3.15	\$2.75
	1.5mm Slot Tip	TD-2061	\$3.50	\$3.15	\$2.75
	2.0mm Slot Tip	TD-2062	\$3.50	\$3.15	\$2.75
	#000 Phillips	TD-2064	\$3.50	\$3.15	\$2.75
	#00 Phillips	TD-2065	\$3.50	\$3.15	\$2.75

Jeweller's Screwdriver Set

All metal precision screwdrivers for watchmakers, jewellers, modelmaking or just fixing the sunnies. Set of six.

- Slotted: 1.0, 1.2 & 1.6mm
- Phillips: #00, #0 & #1

See our Watch Repair Tools on page 63



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2023	\$9.95	\$8.75	\$7.75

6 Piece Insulated Electronic Screwdriver Set

These screwdrivers have ergonomic handles with excellent non-slip grips. The shafts are fully insulated and rated for 1000V. The set contains all the smaller sizes you need for working on electronic gear. Storage case included.

- Slotted: 2mm, 2.5mm, 3mm
- Phillips: #00, #0, #1
- 1000V rated
- TÜV and GS approved
- Case: 192(L) x 130(W) x 26(H)mm



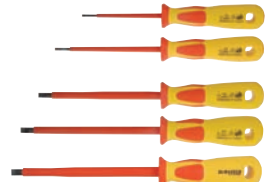
↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2026	\$19.95	\$17.95	\$15.95

ELECTRICAL SCREWDRIVERS

This range of trade quality insulated screwdrivers is one of the most comfortable screwdrivers we have ever used. The ergonomic handles have a soft rubber coating for a secure, comfortable grip that you can use for hours on end. All are TÜV and GS approved and rated up to 1kV.

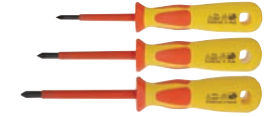
- A size for any application

Slotted



↑	Wmm	Lmm	Cat.	Qty 1+	Qty 3+	Qty 6+
	2.5	75	TD-2230	\$5.50	\$4.90	\$4.30
	3.0	100	TD-2231	\$5.95	\$5.25	\$4.75
	5.5	125	TD-2232	\$6.95	\$6.25	\$5.50
	6.5	150	TD-2233	\$7.95	\$7.10	\$6.25
	8.0	175	TD-2234	\$9.95	\$8.75	\$7.75

Phillips



↑	Size	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	0	60mm	TD-2235	\$5.95	\$5.25	\$4.75
	1	80mm	TD-2236	\$6.95	\$6.25	\$5.55
	2	100mm	TD-2237	\$7.95	\$7.10	\$6.25

1,000V 7 Piece Screwdriver Set

A quality set of 7 screwdrivers with storage box. GS & VDE tested & approved to 1000V. With red handles and insulation right to the tip.

- DIN EN 60900.

Flat:
1.2x6.5x150, 1.0x5.5x125,
0.8x4x100, 0.4x2.5x75

Phillips:
#2x100, #1x80, #0x75



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2022	\$34.95	\$31.45	\$27.95

RELATED PRODUCTS

Tool Magnetiser / Demagnetiser

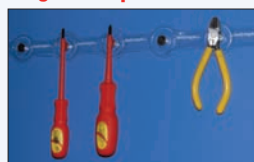
Magnetised screwdrivers make life easier. This tool has two slots, one which will magnetise and the other to demagnetise. The holes are large enough for the largest of screwdrivers.

- 50 x 50 x 30mm.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2042	\$6.95	\$6.25	\$5.50

Handy Magnet Strip



You'll find dozens of uses for this innovative magnetic storage system. It's simplicity itself and can be attached to walls, tables or other surfaces to hold tools, brushes, scissors, key rings or any other object that contains iron.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	LM-1624	\$19.95	\$17.95	\$15.95

Magnetic Project Work Mat

Holds small metal screws, nuts, and bolts so they don't roll off the desk as you work. No more hunting around for that small screw that fell on the floor as you work.

- Dimensions: 254(L) x 203(W)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1867	\$12.95	\$11.35	\$10.35

WORKBENCH EQUIPMENT

SCREWDRIVERS & DRIVER BITS

DRIVERS / DRIVER BITS

Blank Hex Driver For Individual Screw Bits

Use this driver with the bits supplied in our TD-2035 bit sets on the right. It will accept any hex bit in our range and features non-slip rubber handle with magnetic chrome vanadium 50mm long shaft.



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
160mm	TD-2032	\$6.95	\$6.25	\$5.50

7 Piece Hex Nut Driver Set

A useful set of hex nut drivers with deep sockets that allow a generous length of thread to protrude through the nut you are tightening. Sizes supplied are M3, M3.5, M4, M4.5, M5, M5.5, and M6. A plastic storage pouch keeps the set together.



- A quality Japanese product.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2339	\$26.95	\$23.95	\$21.35

The Power Driver Bit Set - 32 Pieces

The set consists of 32, yes 32 of the driver bits that you don't normally see. You don't get any slotted, Phillips or Pozidriv™ bits.

You do get:

- 4 x Tri - wing, size 1, 2, 3, and 4
- 9 x Torx (tamperproof), size T8, T10, T15, T20, T25, T27, T30 and T35
- 4 x Pin drive (snake), size 4, 6, 8 and 10
- 6 x In - Hex (allen), "metric, size 2, 2.5, 3, 4, 5 & 6
- 6 x In - Hex (allen), "imperial size 5/64", 3/32", 7/64", 1/8", 9/64" and 5/32"
- 3 x Torque Set, size 6, 8 and 10.



With this you get a hex driver with magnetic retainer, all in a nifty plastic - rubber holder that is smaller than a deck of cards! (67 x 45 x 30mm).

*Tamperproof Torx works as normal Torx as well.

*Tamperproof In - Hex drive type.



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2035	\$14.95	\$13.35	\$11.70

100 Piece Driver Bit Set

The ultimate driver bit set includes:



- 1 x magnetic bit holder
- 1 x square to hex socket driver 50mm
- 1 x square to hex socket driver 25mm
- 1 x square to hex bit adaptor

Driver bits:

- Phillips # 0, 1, 2 (x5) & 3
- Pozidriv™ # 0, 1, 2 (x5) & 3
- Square drive # 0, 1, 2 & 3
- Slotted 3, 4, 4.5, 5, 5.5, 6, 6.5, 7 & 8mm
- Pin drive (snake) # 4, 6, 8 & 10
- Torque Set # 6, 8 & 10
- Torx T8, T10, T15, T20, T25, T27, T30, T40 & T45
- Tamper proof Torx (Metric) T8, T10, T15, T20, T25, T27 & T30
- Hex (Allen) Metric 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 & 8.0mm
- Tri-Wing # 1, 2, 3 & 4
- Clutch drive # 1, 2 & 3
- Hex (Allen) Imperial 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 & 1/4"
- Spline drive M5, M6 & M8
- Tamper Proof Allen (Metric) 2.0, 2.5, 3, 4, 5 & 6mm
- Tamper Proof Allen (Imperial) 5/32, 9/64, 1/8, 7/64, 3/32 & 5/64"
- Wing nut driver,
- All in a snap lock case with clear markings to show where each bit rests.



High Impact S2 Steel

Note that commonly used driver bits are supplied in greater numbers.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2038	\$24.95	\$22.45	\$19.95

TEST SCREWDRIVERS

"Smart" Test Screwdriver

- Capacitor check
- Diode check
- Transistor check
- Globe/relay/fuse/speaker/resistor check
- Locating broken wire
- Picks up static radiation of TV or monitor
- Instantaneously checks AC power
- Earth disconnection check
- AC voltages



- DC voltage test up to 250V DC
- Continuity check
- Polarity check 1.5V to 36V DC
- Supplied with comprehensive instructions

Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2055	\$11.95	\$10.70	\$9.50

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground.



- Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2049	\$3.95	\$3.45	\$3.15

PRECISION DRIVER SETS

5 Piece Torx Set

Easy to use colour coded Torx screwdrivers in a plastic case. Each screwdriver has a swivel head for easy use.



Blade length is 20mm and torx sizes are T6, T7, T8, T9 & T10.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2070	\$12.95	\$11.35	\$10.35

6 Piece Precision Tamperproof Torx Set

A quality set of chrome vanadium drivers consisting of T7, T8, T9, T10, T15 and T20.

All drivers are 145mm length & presented in a felt-lined plastic case.



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2021	\$19.95	\$17.95	\$15.95

12 Piece Keycase Mini Driver Set

12 mini bits & driver in a key-sized storage case.

- Flat: 1.5, 2, 2.5mm
- Phillips: 0, 00, 000
- Torx: T5, T6, T7, T10
- T8H, Hex 2.5mm
- Case size: 95(H) x 60(W)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2105	\$18.95	\$17.05	\$15.15

32 Piece Precision Driver Set

High quality driver set with all those really small bits. Tactile handle with hardened hex shaft from 140 to 210mm. Ideal for jewellery, model making or electronics. Storage case included.

- Slotted: 1, 1.5, 2, 2.5, 3, 3.5, 4mm
- Phillips: 000, 00, 0, 1
- Pozidriv: 0, 1
- Torx: T4, T5, T6, T7, T8 T9, T10, T15, T20
- Hex: 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4mm
- Case: 157(L) x 100(W) x 27(D)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2106	\$18.95	\$16.95	\$14.95

15 Piece Micro Driver Set

This handy set comes with all those microscopic fasteners we come across in modern electronics. The ergonomic handles are colour coded and they come in a sturdy storage case.

- Slotted: 1mm, 1.4mm, 1.8mm, 2.4mm
- Phillips: #000, #00, #0, #1
- Torx: T5, T6, T7, T8
- Hex: 1.5mm, 2mm, 2.5mm
- Drivers: 105mm long
- Case size: 192(L) x 130(W) x 26(H)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2069	\$24.95	\$22.35	\$19.70

22 Piece Long Bit Screwdriver Set

Tackle a wide range of fastening scenarios using our compact screwdriver set comprising a selection of popular slotted, Phillips, Star and TRI bits, packed away neatly inside a handy storage case.

Includes:

- Slotted: SL1.5, SL1.7, SL2.0, SL3.0 and SL4.0
- Phillips: PH000, PH00, PH0, PH1 and PH2
- Star: T5, T6, T7H, T8H, T9H, T10H, T15H and T20H
- TRI: 2.5, 3.0, 1.6 and 2.0



Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2114	\$34.95	\$31.45	\$27.90

TOOL KITS

10 Piece Reinforced Plastic Tool Set

A handy toolset that won't rust, so it's great for the toolbox, glovebox or tacklebox. Other benefits of these reinforced plastic tools include working on live (low voltage) circuits without chance of shorting if you slip, and preventing damage to the fasteners (screws & nuts) on your projects. You could even pack them in your cabin baggage if you travel. Supplied as a once piece mould - simply snap out the tools you need to use when you need them.

Package contains:

- Scraper
- Tweezers
- Spanner (M1.6/M2/M2.6/M3/M4)
- Grip (Driver) for attaching to the following:
- No. 1 + Head x 1 (Phillips)
- No. 2 + Head x 2 (Phillips)
- No. 1 - Head x 1 (Slotted)
- No. 2 - Head x 1 (Slotted)
- M4 Hex Male Head
- M4 Hex Female Head
- M3 Hex Female Head
- M2.6 Hex Female Head
- M2 Hex Female Head



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2116	\$4.95	\$4.45	\$4.00

30 Piece Tool Kit with Case

Minor DIY repairs are a breeze with this 30 piece tool kit and every DIYer should have one of these in easy reach. The tools are held securely in a zip-up case.

Contents:

- Side cutters
- Long nose pliers
- Snap-blade knife
- Tape measure
- Precision screwdriver with bits
- Driver handle with: PH1, PH2, PZ1, PZ2, 5, 6mm slotted, T10, T15, T20
- 5, 6, 7, 8, 9, 10mm sockets
- Folding Allen keys 1.5, 2, 3, 4, 5, 6mm
- Case measures 210(L) x 160(W) x 48(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2166	\$29.95	\$26.95	\$23.95

35 Piece Electronic Tool Kit with Vinyl Case

A multi-purpose precision screwdriver tool set with a durable storage case with zipper. The tool set consist of 30 bits, cutters, pliers and a flexible shaft adaptor for those tricky to reach screws. Ideal for electronic service tradesmen and hobbyists.

Kit includes:

- 30 pcs assorted bits:
 - Slotted: SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5, SL4.0mm
 - Phillips: PH000, PH00, PH0, PH1
 - Pozi: PZ0, PZ1
 - Torx: T4, T5, T6, T7, T8, T9, T10, T15, T20
 - Hex: H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H4.0mm
- Needle nose pliers
- Diagonal cutters
- Flexible shaft
- Stainless tweezers
- Easy grip screwdriver handle
- Durable zippered storage case
- Case dimensions: 180(L) x 125(W) x 30(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2117	\$39.95	\$35.90	\$31.90

Gaming Console Tool Kit

If you have ever attempted any repair or improvement on your gaming console, you know that the right tools can make the difference between a good experience and a bad one. Everything you need to get into your console and accessories. It includes tools for pretty much every console and handheld on the market today - Wii®, X-Box®, Playstation® etc. Carry case included.

Contents:

- PH000, PH00, PH0, PH1
- Slotted 2, 3, 4mm
- T4, T5, T6, T8, T10, T15, T20
- TA2, TA2.3
- TRI00, TRI0, TRI1
- Nintendo® & X-Box® security bits
- X-Box® opening tool
- Stainless tweezers
- Ratchet handle and adaptor



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2109	\$29.95	\$26.95	\$23.95

TOOL KITS FOR SMARTPHONES

Tool Set Repair Kit for iPhone®

The tools you need to safely open up your iPhone® or iPad® and put it back together again. Replace cracked screens, dead batteries, scratched back panels and more.

- Suits iPhone® 3G, 3GS, 4, 4s, 5.

Contents

- 3 x iPhone® mounting panels with screw hole marks for iPhone® 4, iPhone® 4s, iPhone® 5
- 1 x Scraping plastic film
- 1 x Special tool for capacitive screens
- 1 x 0.8 Pentalobe screwdriver (for iPhone® 4 iPhone® 4s, iPhone® 5)
- 1 x 1.2 Pentalobe screwdriver (for iPad®)
- 1 x 1.2 Phillips screwdriver (for iPhone® 3, and parts of iPhone® 4)
- 2 x Guitar pick opening tool
- 2 x Plastic prying tools



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2115	\$16.95	\$14.95	\$13.35

27 Piece Smartphone Repair Kit

A kit containing all the necessary tools you need to fix your Smartphone. This 27 piece Smartphone repair tool kit comes in a compact storage case with a hang tab to make sure that you don't misplace the kit after use. It is not limited to Smartphones either - it is designed to repair iMac®, Mac® air, iPhone®, Samsung®, HTC®, Nokia®, Sony® as well as many brands of mobile phone.

Kit includes:

- Aluminium alloy handle
- 18pcs for 4mm bits: PH000, PH00, PH0, PH1, SL1.5, SL2.0, SL2.5
- Torx: T4, T5, T6, T8, T10
- HEX1.5, HEX2.0
- Pentalobe0.8, 1.2, 1.5
- Tri-Lobe #0
- Plastic prying tools x 2
- Extension bar
- Guitar pick opening tool
- Suction vacuum opener
- Tweezers x2
- SIM card ejector pin tool
- Soldering scraper tool
- Nylon ESD-safe probe with pointed and blade ends
- Dimensions: 190(L) x 130(W) x 26(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2118	\$29.95	\$26.95	\$23.70

ALLEN KEYS

25 Piece Allen Key Set

25 different size Allen keys in a plastic wallet. Both metric and imperial sizes.

- Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 8.0, 10.0mm
- Imperial 3/8, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, 3/32, 5/64, 1/16"



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2052	\$11.95	\$10.70	\$9.50

TECH TALK!

ALLEN KEYS ADAPTED TO CORDLESS DRILL USE

Allen keys are very common these days and small sets like the one above are really quite inexpensive. The boss here has a set where he has cut off the short return piece of the Allen key with an angle grinder. The Hex bit then fits conveniently into the chuck of the cordless drill. The low speed setting on a typical "cordless" is generally more than enough torque for most jobs. It's a great way to assemble flat-pack furniture and saves wear and tear on your fingers.

SPANNER SET

10 Piece Spanner Set for Electronics

Ideal mini spanner set. Set of 10 pieces, open end/ring combination. Suitable for light hobbyist use.

- Sizes supplied are: 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10 & 11mm.
- Supplied in a plastic wallet.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1910	\$24.95	\$22.45	\$19.95

WORKBENCH EQUIPMENT

MAGNETS, KNIVES & TWEEZERS

MAGNETS

Large Rare Earth Magnets - Pair

These rare earth magnets are exceptionally strong. They are made from NdFeB (Neodymium Iron Boron), providing the highest available magnetic energy of any material. Suitable for a wide variety of applications where a very strong magnet is required. In fact, these are the same magnets used in our Faraday shake torches. The nickel casing protects the magnets because the material is very brittle.

- Sold as a pair.
- Dimensions: 19mm dia x 28.2mm long
- Grade: NdFeB, N35
- Coating: Nickel



	Cat.	Qty 1+	Qty 6+	Qty 20+
↑	LM-1652	\$29.95	\$26.90	\$23.70

Rare Earth Magnets with Mounting Holes

Super powerful rare earth magnets with 4.5mm countersunk mounting holes so you can fix them to your project to latch a door closed, etc.



⬆	Cat.	Qty 1+	Qty 6+	Qty 20+	
	Round 25(Dia) x 5mm	LM-1626	\$18.95	\$16.95	\$14.95
	Rectangle 50(L) x 20(W)mm	LM-1628	\$24.95	\$22.35	\$19.70

Rare Earth Magnets

These magnets feature rare earth compounds combined with ferrite (anisotropic) to produce incredibly strong attraction/repulsion. They are encased in nickel jackets because the material itself is very brittle. We warn you that getting a finger between these could result in a nasty pinch! They are provided with a nickel plated iron "keeper".



⬆	Cat.	Qty 1+	Qty 6+	Qty 20+	
	Small - 10mm dia x 3mm - Pkt 4	LM-1622	\$13.95	\$12.35	\$10.95
	Medium - 25mm dia x 5mm - Each	LM-1618	\$17.95	\$15.95	\$14.35

Ferrite Magnets

Ideal for hobby and craftwork, school projects etc. Can be glued to wood, plastic rubber etc.

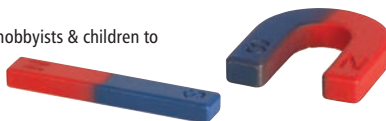


⬆	Cat.	Qty 1+	Qty 6+	Qty 20+	
	10L x 10W x 4Dmm - Pkt 12	LM-1616	\$6.95	\$6.25	\$5.50
	20L x 15W x 5Dmm - Pkt 6	LM-1614	\$6.95	\$6.25	\$5.50

Magnet Bars

Educational magnets. Ideal for hobbyists & children to learn more about magnetism.

- Each end is marked with "N" or "S".



⬆	Cat.	Qty 1+	Qty 6+	Qty 20+	
	Bar Magnet - 70L x 12W x 5Dmm	TH-1874	\$1.95	\$1.75	\$1.55
	U Shaped - 30mm x 30mm	TH-1873	\$1.95	\$1.75	\$1.55

Flexible Adhesive Magnetic Rubber Strip

This self adhesive magnetic rubber strip can be cut down to suit an application and makes an ideal fridge magnet for adhering to promotional material such as menus, calendars etc.

- Dimensions: 15(W) x 500(L)mm.
- 2mm thick.



	Cat.	Qty 1+	Qty 6+	Qty 20+
↑				
	LM-1612	\$5.95	\$5.25	\$4.75

NIBBLING TOOLS

Nibbling Tool

Will cut any shape out of aluminium, plastic, copper and other unhardened metals up to 18 gauge. Tool is designed to fit into the palm of your hand for easy use, simply drill a 1/4" hole to start.



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	TH-1768	\$14.95	\$13.35	\$11.70

KNIVES

14 Piece Precision Hobby Knife Set

Handy hobby tool set comprising of 10 different blades, handle, 70mm long tweezers, 90mm long flat screwdriver and vernier calipers, which measure up to 81mm (3.1inches).

Blades included:

1 x #1	3 x #11
1 x #4	2 x #12
1 x #7	1 x #17
1 x #10	

Case dimensions: 170(W) x 85(W) x 35(D)mm



⬆	Cat.	Qty 1+	Qty 3+	Qty 6+	
	Hobby Knife Set	TH-1916	\$19.95	\$17.70	\$15.70
	Spare Blades - 10 Per Set	TH-1917	\$5.95	\$5.25	\$4.75

Artwork Knife

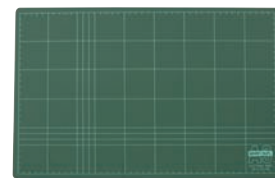
Light duty precision knife with safety cap. Ideal for fine angle cuts, etching, hollowing, scoring, scraping, scribing, stripping and trimming. Four piece jaw chuck method of blade retention.



⬆	Cat.	Qty 1+	Qty 3+	Qty 6+
Knife	HG-9955	\$4.95	\$4.45	\$3.90
Blades Pkt 5	HG-9956	\$3.95	\$3.45	\$3.15

Benchtop Work Mat

Protect your benchtop. This durable A3 size PVC cutting mat is just the thing to protect your work benchtop. You can cut on it, solder, write on it, and not damage your workplace. The mat is 3mm thick, and measures 450 x 300mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	HM-8100	\$12.95	\$11.35	\$10.35

TWEEZERS

Anti-Magnetic Precision Tweezers

These are high quality tweezers made from anti-magnetic, anti acid steel. Perfect for handling SMD components, jewels or general electronic components.

- Length 110mm.
- Supplied with protective nylon cap.



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	TH-1754	\$4.45	\$3.95	\$3.45

Stainless Steel Tweezer Set

A set of 4 tweezers, three supplied with vinyl handles, comprising:

- 1 x self closing pointed type
- 1 x long curved pointed type
- 1 x long fine pointed type
- 1 x flat spatula type

Approximate length 115mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	TH-1752	\$8.95	\$7.95	\$6.95

ESD Safe Tweezers with LED Illumination

These precision tip tweezers are ideal for picking up tiny objects with the added benefit of a LED light to illuminate the item being handled. Ideal for working with SMD components or jewels they are ESD (Electronic Discharge) safe and have teeth on the tip to ensure reliable grip on items.

- Includes 3 x SR41 batteries
- Dimensions: 155(L) x 15(W) x 10(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	TH-1761	\$9.95	\$8.75	\$7.75

Stainless Steel Tweezer Set - ESD Safe

A set of 3; duckbill head, angled fine and straight superfine enable you to manipulate surface mount components or other tiny items with ease. ESD coating on main body of tweezers greatly reduces static discharge issues.

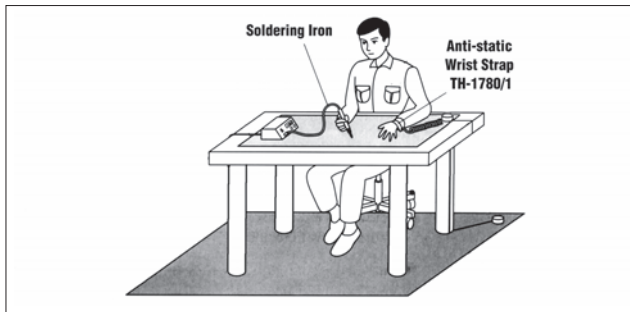
- Measures: Angled & duckbill 120mm, superfine 135mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑				
	TH-1760	\$19.95	\$17.95	\$15.95

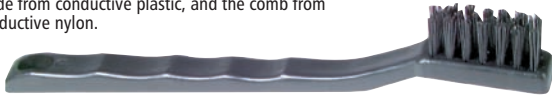
ANTI-STATIC PRODUCTS

Static control - both in the workshop/factory and in the field - is becoming increasingly important for reliable manufacture, repair and or installation of large surface mount LSI based boards. We offer a complete line of static control products for virtually any situation.



Conductive Brush

This brush looks very much like a toothbrush. The handle is made from conductive plastic, and the comb from conductive nylon.



Use it to clean anything where static is a problem.

- Resistivity: $-10^4 - 10^6 \Omega$.
- Length 178mm.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1775	\$9.95	\$8.75	\$7.75

Anti-Static Workplace Desk Mat

This anti-static mat measures 555(W) x 290(D)mm and is ideal for anyone who manufactures, repairs or services sensitive electronic equipment. It is about 3mm thick, has a hard wearing face over a dense sponge rubber base. Can also be used as an anti-static base for computer keyboard.

- Top colour is grey.
- See opposite for connecting leads.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1783	\$19.95	\$17.95	\$15.95

Anti-Static Wrist Strap

Use when static electricity is a problem when soldering, changing ICs and installing expansion cards in computers etc. Static charges can destroy ICs instantly. Consists of adjustable Velcro wrist strap, coiled lead and banana plug/alligator clip.

- Expanded lead length about 1.8m

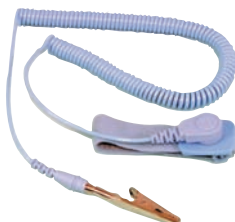


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1780	\$13.95	\$12.35	\$10.95

Anti-Static Wrist Strap

Similar to the unit above, this strap has an extra long coiled lead of 3m/10ft extender. This makes it ideal for moving about your workbench without having to unclip yourself to do so. An elasticised wrist strap is also included, along with banana plug/alligator clip.

- Colour may vary.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1781	\$17.95	\$15.95	\$14.35

Anti-Static Field Service Mat / Bag

This mat is ideal for field service people, who need an anti-static work area when on the move. The mat folds out to a work area of approximately 600 x 600mm. At one end there are 2 pouches, and a ground lead and wrist strap are included. A very useful tool.



- Pouch size approx: 200 x 300mm.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1776	\$49.95	\$44.90	\$39.90

WORKSHOP TOOLS

4 Piece Mini Pick & Hook Set

These hook tools have stainless steel heat treated points, and are ideal for use on O-rings, springs, snap rings, washers, checking soldering joints, general hobbyist kit building, and probing into things, etc.



Hooks are:

- straight pick, 90° hook, full hook, small angle hook.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1762	\$15.95	\$14.35	\$12.70

Pearl Catch

Incredibly handy tool for those moments when you need to pick up small fiddly bits and pieces.



- Will clip to and hold small nuts, bolts, washers, transistors, resistors, etc
- Metal construction

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1842	\$9.95	\$8.75	\$7.75

Super Extension Claw & Magnetic Pickup

Actually two tools. Tool No. 1 is a 600mm long flexible syringe-action claw gripper similar in operation to a pearl catch. The 4 prong gripper will capture an object up to 15mm in diameter with about 500g of gripping force. It is ideal for retrieving, say, a nut or screws in an engine compartment or piece of equipment. Tool No. 2 is the same thing except that it has a magnet on the end instead of a claw. We sell them as a set because they complement each other.



↑	Cat.	Qty 1+	Qty 6+	Qty 20+
	TH-1868	\$7.95	\$7.15	\$6.35

Scriber

This pen type tool will scribe on metal, glass, plastic, ceramics and tools. Stylus is made of tungsten steel. Looks like a pen, and has a pocket clip. Length 110mm.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2120	\$7.95	\$6.95	\$6.25

Automatic Centre Punch

This handy tool allows you to make a centre punch mark with one hand. You simply hold the unit against where you would want a centre punch mark, apply downward pressure until the internal hammer mechanism trips. The pressure is adjustable, depending on the hardness of the surface. Sturdy brass body with hardened steel centre punch. 125mm long overall.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1770	\$7.95	\$6.95	\$6.25

WORKBENCH EQUIPMENT

DRILL BITS & TAPPING SETS

DRILLS & DRILL SETS

PC Drill Bit Pack - 10 Piece

Includes all the common types:

- 1 x 3.5mm for PC supports and relays
- 2 x 1.2mm - for PC pins and hook-up wire
- 3 x 1mm - for resistors, capacitors, etc.
- 4 x 0.8mm - for ICs etc.

TOTAL - 10 DRILLS



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2400	\$12.95	\$11.35	\$10.35

Micro Drill Bit Set

0.7 - 2.2mm - 10 Piece

Every hobby engineer needs a set of micro drill bits in the workshop. Quality HSS in incremental sizes from 0.7 to 2.2mm.

- Sizes (one of each): 0.7mm, 0.8mm, 0.9mm, 1.0mm, 1.2mm, 1.4mm, 1.6mm, 1.8mm, 2.0mm, 2.2mm (one each)
- Has 3mm shank to easily fit most chucks



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2407	\$14.95	\$13.35	\$11.70

20 Piece Micro Drill Set 0.3 - 1.6mm

20 micro drills in an indexing storage case, ideal for drilling wood, composites, plastic or soft metals.

Indexed case enables removal of the bit you want without the risk of spilling them all over the place.

- Sizes: 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2, 1.3, 1.4, 1.6, 1.6mm
- Case size: 130(L) x 70(H) x 8(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2406	\$12.95	\$11.35	\$10.35

PCB Drill Chuck

This chuck will allow you to use drill bits from 0.6mm up to 2mm on your normal drill / cordless drill / power screwdriver or screwdriver which accepts standard hex bits.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2010	\$9.95	\$8.75	\$7.75

Pin Vice

A handy addition to any tool case. All metal construction with two internal collars. The head rotates freely making it ideal for drilling delicate PCBs or plastic cases.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1772	\$13.50	\$11.95	\$10.70

Spiral Drive Drill / Driver



This unit is reminiscent of drill/drivers of 50 years ago (before cordless drills). The unit consists of a collet-type chuck and handle with a spiral shaft. Pushing the handle towards the job causes the collet to rotate. This would enable a drill (or screwdriver bit for that matter) to very gently and slowly rotate. It is ideal for very fine work and does need some practice to perfect your technique.

- Includes 2 pin vice collets: 0.3-1.0mm & 1.8-2.6mm
- Also 3 small drill bits in tubular case
- Measures: 180(L) overall (uncompressed) x 15(Dia.)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2089	\$17.95	\$16.15	\$14.35

Stepped Drill Bits

Drill multiple size holes with the one bit! You can drill through plastics and non-hardened metals (such as aluminium or copper sheeting etc) up to 4mm thick! Made from high speed steel (HSS), they will last for a very long time.

Two sizes available:

- 4 - 12mm drill in 1mm steps - TD-2436
- 12 - 20mm drill in 1mm steps - TD-2438



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
4 - 12mm	TD-2436	\$14.95	\$13.35	\$11.70
12 - 20mm	TD-2438	\$24.95	\$22.35	\$19.70

4 Piece Countersink Set

The easy way to deburr or countersink. Simply drill hole, insert tool with appropriate bit, and turn for a countersunk angle of 90°. Bits include 12, 16 and 19mm - all hardened carbon steel.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2027	\$13.95	\$12.35	\$10.95

M4 Metric Taps

Clean up a cross threaded nut or cut a thread into a chassis or heatsink etc. High quality tool steel.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
4mm	TD-2442	\$4.45	\$3.95	\$3.45

31 Piece Mini Tap & Die Set

This 31 piece set is for the ultra small screws found in electronics. The kit consists of 9 metric screw cutting dies: 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 & 2.5mm types in high speed steel and 18 equivalent taps in the same sizes above but with a taper and a plug version of the tap.



There are 2 die liners to accommodate the smaller dies in the stock supplied. You will love this rare product. Supplied in a see-through plastic case which securely holds all parts.



- Dimensions: 83(W) x 153(L) x 12(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2443	\$74.95	\$67.45	\$59.95

FILES

File Saw

This is a versatile tool that will find many uses around the home or workshop. Great for cutting odd shapes in plaster, PVC pipe, PVC sheeting, leather, plastic and many other soft materials. The tool will trim holes to any radius and get into places where others won't. The blade measures 175mm long and the large, easy grip handle is 120 mm long. Not to be used as a nerve broach or other dental work.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2127	\$15.95	\$14.35	\$12.70

10 Piece Needle File Kit

Every toolbox should have a set of needle files. This set contains every profile you could ever need. All have integrated plastic handles and come in a handy storage wallet. Each is 162mm long.

Profiles:

- Round
- Elliptical
- Half-round
- Double half round
- Triangle
- Square
- Flat
- Flat tapered
- Knife
- Flat tapered safe back



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Piece	TD-2128	\$14.95	\$13.35	\$11.70

Deburring Tool

Clean up the edges of a hole. Suitable for steel, plastic, wood etc. Blades are fully ground for safety. SK2 steel blades are hardened to HRC64. Supplied with spare blade. Will deburr virtually anything.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1845	\$9.95	\$8.75	\$7.75

LABORATORY MAGNIFIERS & LAMPS

Eye Magnifier

This 3 times magnifier is handy for checking PC boards, looking at stamps or coins, jewellery, etc, etc.

- Every hobbyist should have one.
- Dimensions: 28(H) x 22(dia view area) x 40(dia base)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3515	\$8.95	\$7.95	\$6.95

See our range of Digital Microscopes on page 113

Magnifying Glass

This huge 4.5" diameter viewer allows hands free operation. It will fold into a neat and easy to store package.

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3505	\$8.95	\$7.95	\$6.95

Micro Magnifier with LED

Having trouble reading or working on your hobby in fading or poor light? This convenient pocket-size magnifier with super bright LEDs allows you to work or read for longer periods. Comes complete with a soft pouch for easy storage. Ideal to take travelling or camping.

- 2 Super bright white LEDs
- 3 X magnification with super 5 X magnifier
- One touch ON/OFF operation
- Dimensions: 90(H) x 58(W) x 6(D)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3531	\$10.95	\$9.85	\$8.75

Magnifying Lens with LEDs

Ideal for the elderly or vision-impaired. Keep one in the glovebox for reading the street directory in the dark.

- Big, clear 90mm lens illuminated by two LEDs
- Requires 2 x AAA batteries
- Dual magnification: 3X & 5X
- Case and cleaning cloth included
- Dimensions: 90(Dia.) x 160(L)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3537	\$13.95	\$12.55	\$11.15

10x LED Magnifier with Scale

With all metal construction and glass optics, this superb little magnifier provides 10 dioptre magnification with razor-sharp clarity. Inside the viewer is a graduated scale in metric and imperial graduations so you can actually take measurements of an object down to fractions of a millimetre. Three LEDs and the 26mm eyepiece provide crystal-clear even illumination of the subject. Ideal for checking PCBs in pre-production, lab, science, education or engineering applications. 2x AA batteries included.

- 10x magnification
- All metal construction
- Satin chrome finish
- Ground glass optics
- Dimensions: 180(L)mm

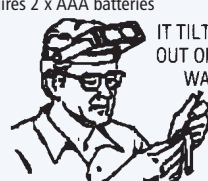


↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3539	\$29.95	\$26.95	\$23.95

LED Headband Magnifier

This magnifying headset leaves both hands free and can be worn over prescription or safety glasses. It also has a built-in LED light that can be rotated up, down or side to side to illuminate your work. There are three lenses that can be used in combinations to give 1.5x, 3x, 8.5x or 10x magnification. The head strap is fully adjustable and locks into position and the lens assembly can be swivelled up out of the way when not in use. A multitude of uses including lapidary, jewellery, model-making, electronics and camera repair.

- Requires 2 x AAA batteries



IT TILTS UP
OUT OF THE
WAY



HANDS
FREE
MAGNIFYING

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3511	\$29.95	\$26.95	\$23.95

Illuminated Gooseneck Magnifier

The gooseneck magnifier is a valuable accessory for coin/stamp collectors, photography etc. The 2X main lens and 5X insert lens with the bonus of 2 LED lights, is a welcome addition for any hobbyist. The magnifier is clip-on or free standing. Suitable for most flat surfaces or workplace incline up to 38mm thick. The flexible metal arm ensures that you can position the magnifier just where it's needed.

This handy magnifier also comes with a soft protective pouch for your lens to protect it from dirt and dust. It also has metal stabilisers to ensure that your magnifier remains stable while working.

- Stands 225mm high
- Includes protective lens pouch
- Lens Diameter: 110mm
- Requires 3 x AAA batteries



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3532	\$29.95	\$26.95	\$23.95

6/12 LED Magnifying Glass

Extremely robust, this is not the kind of magnifier you keep in the desk and bring out occasionally. All metal construction makes it ideal for the lab, workshop or photography studio. The high quality glass lens provides superior optics. 12 LEDs ensure ample illumination for your work and can be switched to a low power setting of 6 LEDs.

- Zip nylon carry case
- 85mm lens diameter
- 3.5x dioptre magnification
- Requires 2 x AA batteries
- Dimensions: 240(L) x 110(Dia.)mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3534	\$39.95	\$35.90	\$31.90

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details



RELATED PRODUCTS

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MAGNETIC WORKMAT

P55

WORKBENCH EQUIPMENT MAGNIFIERS & ULTRASONIC CLEANERS

LABORATORY MAGNIFIERS & LAMPS (CONTINUED)

Desktop Lab LED Magnifying Lamp

No more fluorescent tubes to replace on your maggy lamp. Sixty LEDs provide ample illumination, perfectly even light and the 3x and 12x magnifying lenses show all the detail you need. Being LED, there's no delay in startup and they'll never need replacing. Ideal for hobbies, model making or jewellery.

- 1.3m mains lead
- Dimensions: 320(H) x 95(Dia.)mm
- Lens Dia. 100mm



**BEST
SELLER**

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3544	\$64.95	\$58.45	\$51.95

5 Dioptre LED Magnifying Lamp

Magnify and illuminate objects for analysis. A must have tool for technicians, researchers, or for general hobby work that involves soldering, connecting wires between small parts, and other fiddly jobs where the human eye simply does not suffice. This model has a metal frame and a 5 dioptre lens allowing excellent magnification. The main extension arm can be manoeuvred in a myriad of ways to achieve perfect positioning and the lens is ringed with 90 bright white LEDs. Attachment to a desk can be achieved with the supplied clamp while a rolling base mount is available separately (QM-3549).

- 5 dioptre lens
- Lens Dia.: 127mm
- Mains powered (1.5m lead)
- 90 x bright white LEDs
- Dimensions: 77(L) x 38(H) x 25(W)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3548	\$119.00	\$106.95	\$94.95

Desk Mount LED Laboratory Magnifying Lamp

This is a high quality, all metal frame construction magnifier which features 90 super bright LEDs inside the magnifier head. The magnifier itself is made of glass and is a 3 dioptre lens, with a metal handle for quick repositioning. A thumb screw positioned in between the two flexible extension arm assemblies (total extended length 990mm) allows exact positioning of the lens, and is assisted by a further thumb screw next to the lens head itself.

Mounting the magnifier is simple - screw the base onto the side of any desk or workbench (approx maximum table top thickness 45mm), and slot the magnifier into the bench mounted receptacle. The LEDs can be turned on or off with a magnifier head mounted switch, with the unit itself plugged into a mains outlet via a generous 1.5m long cord. A great tool to assist PCB assembly/inspection, jewellers, stamp/coin dealers, etc.



See page 44 for similar
Bench Type Units

- 3 dioptre magnification
- Lens Dia.: 120mm
- Light source: 90 LEDs
- Mains powered
- Total extended length 990mm

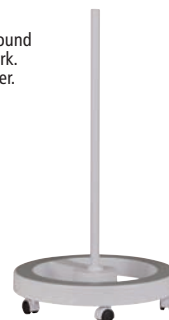


	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3546	\$109.00	\$97.95	\$86.95

Rolling Floor Base for Magnifying Lamps

Mount a magnifying lamp to this base and you can roll it around the floor providing even greater flexibility in observation work. Great for lab work. Heavy base so it doesn't easily topple over.

- Suitable for use with magnifiers QM-3548 and QM-3546
- Dimensions: 700(H) x 385(Dia)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3549	\$99.95	\$89.95	\$79.95

ULTRASONIC CLEANERS

Domestic Ultrasonic Cleaner

Suited to domestic use this ultrasonic cleaner cleans all your watches, jewellery, fountain pens, dentures, razor heads, printer heads, small silverware and small machined parts. Mains powered and easy to use. Fill the tank with water, add a mild cleaning solution and set the timer. The LCD tells you how long to go and the timer has 5 settings from 90 seconds up to 7 minutes 30 seconds.

Specifications	YH-5408
Tank volume	550ml
Power consumption	50W
Time settings	1½ minutes 6 minutes 3 minutes 7½ minutes 4½ minutes



	Cat.	Qty 1+	Qty 3+	Qty 6+
	YH-5408	\$79.95	\$74.95	\$63.95

PCB Wash Defluxing Solution

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts de-greasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water-based (Biodegradable)



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA-1070	\$14.95	\$13.45	\$11.95

Digital 2.5L 170W Ultrasonic Cleaner

This unit features a generous 2.5 litre 304-grade stainless steel bowl, controllable heating element and digital controls. It comes with a lid (if you are using volatile solvents), features a stylish cabinet design and is supplied with a basket. Very well built.



Specifications	YH-5412
Tank Capacity	2500ml (Max 2100ml, Min 600ml)
Power consumption	170W @ 240V 50Hz
Time settings	1 min 30sec, 3 mins, 4 mins 30 sec, 6 mins 30 sec, 8 mins
Ultrasonic freq	35kHz
Ceramic heater	100W approx with 65°C temp limit
Weight	2.5kg
Tank dimensions	245(W) x 150(D) x 76(H)mm
Unit dimensions	290(W) x 223(D) x 185(H)mm

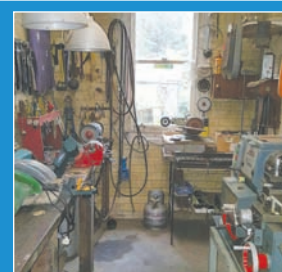
	Cat.	Qty 1+	Qty 3+	Qty 6+
	YH-5412	\$169.00	\$151.95	\$134.95

Workbench sent to us by: Joan Jaycar Store: East Kew

More an old fashioned man cave but I love it.

Jaycar - so do we!

For more details, visit:
www.jaycar.com.au/workbench



WATCH REPAIR TOOLS

Jaycar has been fiddling with micro tools for years now, from tiny jewellers screwdrivers to small spanner sets to tiny table mounted vices etc..

We have discovered a source of reasonably priced watchmakers' tools (real; pull-watches-apart-tools.)

Here they are, folks. We expect them to be popular; they are Jaycar kind of products.

2 Piece Watch Case Opener Set

This set consists of an adjustable opener that engages the little recesses on the back of a watch. You can adjust the removing lugs very accurately to get a tight fit - absolutely essential. The other half of the set looks like a small oyster shucking knife (Appropriate when you think about it!). It is just fine enough to get into that tiny groove that some of the older watch covers have.

- Can open cases 6 - 50mm diameter

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1929	\$24.95	\$22.45	\$19.95

4 Piece Watchmakers' Kit

Central to this kit is the hand held watch case opener/holder. It has a screw-adjustable case retainer with a very large selection of retaining lugs - indeed 18 in all, some the same. Also included as a large dusting bulb pump, No. 7 tweezers and fine dusting brush.

You will be delighted with this set.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1932	\$34.95	\$31.45	\$27.90

Watchmakers Mallet with Interchangeable Heads

This unit weighs almost 90 grams and is 185mm long. It features 6 different heads, 4 steel ones, a brass one and acrylic plastic one. It seems that even in watchmaking you need a "persuader". Ball pein on the opposite end.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1927	\$14.95	\$13.45	\$11.95

SPECIALTY SCREWDRIVERS

Keyring Screwdriver Set

This tiny key-size screwdriver set consists of a 5mm slotted driver, #2 Phillips driver and is small enough to be carried on your key ring, yet strong enough to loosen all but the toughest general purpose screws without damage. The drivers are made from chrome-vanadium steel and have a forged handle section that allows plenty of pressure to be applied to the job. Length 55mm.

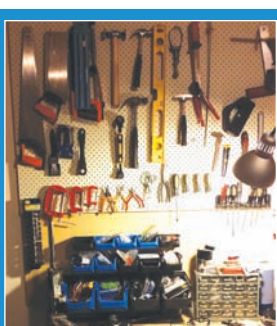
↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2012	\$3.50	\$3.15	\$2.75

Workbench sent to us by: Chris Jaycar Store: East Kew

Just added my new peg board. Overhead lighting plenty of power points.

A place for all my components, multimeters and soldering irons!

For more details, visit:
www.jaycar.com.au/workbench



Watch Bracelet Link Removal Pliers

This tool enables you to remove and reinstall the fiddly little bracelet pins, so necessary when the bracelet band is new and generally too big for the wearer. It comes with a 1.0mm and 0.8mm pin removal insert.

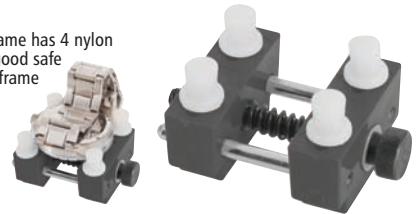


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1923	\$39.95	\$35.90	\$31.90

Watch Case Holder

The sturdy, but adjustable frame has 4 nylon retaining posts to enable a good safe grip on the watch case. The frame could then be held in a vice, freeing up your hands.

Note: Watch not included



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1934	\$12.95	\$11.35	\$10.35

Wrist Strap Spring Bar Assortment

This is a must. A selection of the little spring bars that get broken/bent/lost even by the most careful wearers. This set frees you from the tyranny of the watchmaker. One use will pay for the cost of the whole set.

The assortment consists of a total of 360pcs of the most common sizes: from women's 8mm to men's 25mm. All 1.5mm Dia. In detail the set includes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 & 25mm types. Has single sided spring bar and double sided types.

Supplied in quality compartment case.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1928	\$24.95	\$22.45	\$19.95

Pin Extractor Press

A handy little pin-extractor/insert press with a 0.8mm punch. Mainly intended for taking links out of watch bands, but endless other uses for jewellery making, modelmaking and hobbies.

- 2 spare pin punches
- Assortment of 12 pins



See our Mini HSS Tap & Die Set on page 60

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2014	\$10.95	\$9.85	\$8.75

SPIRIT LEVEL

Keyring Spirit Level

Handy spirit level that attaches to your keys.

- Dimensions: 30(L) x 10(W) x 10(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1931	\$4.95	\$4.45	\$3.90

POCKET TOOL

Multifunction Pocket Tool

This handy little tool will fit in your wallet! It is the size of a credit card, made from stainless steel and features a can opener, screwdriver, ruler, bottle opener, 4 position spanners, saw blade, directional auxiliary indication and a lanyard hole. Is the ideal companion for camping, hiking, backpacking or just to keep handy for those MacGyver moments. Supplied with pouch.

- 68(L) x 45(W) x 2(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH-1838	\$4.95	\$4.45	\$3.95

WORKBENCH EQUIPMENT TOOLS & STORAGE CASES

ABS INSTRUMENT CASES WITH PURGE VALVES

These robust cases come with purge valves for an airtight seal, ribbed ABS construction, stainless steel hinge pins, O-ring seals and very solid catches. The lids are lined with removable egg-shell foam and they come with pluck foam insert with an extra layer of egg-shell foam. Ideal for your camera gear, test, medical or scientific equipment.



HB-6389

ABS Instrument Case MPV0

Ideal for professionals to carry around small sensitive devices including computer, medical, or engineering equipment. Features extremely strong catches with metal pins, it's sealed with a rubber gasket, and inside is pluck foam to shape the internal storage space for a specific object. Lanyard included Cat. HB-6389



HB-6388

ABS Instrument Case MPV1

Tiny size for small instruments or test equipment. Cat. HB-6388



HB-6381

ABS Instrument Case MPV2

Small size for a single SLR camera, DMM or other test equipment. Cat. HB-6381



HB-6387

ABS Instrument Case MPV4

Medium size to take extra camera and lenses or larger gear such as oscilloscopes or multiple pieces of test equipment. Cat. HB-6383



HB-6383

ABS Instrument Case MPV7

Large size. This case also has moulded slots to take dividers and two layers of pluck foam. It's also deep enough to take a pro SLR camera body. Cat. HB-6385



HB-6385

ABS Instrument Rolling Case MPV8

Ideal for the travelling professional. Like a conventional piece of luggage, it has a retractable handle and built-in wheels to take the load. It's also carry-on size. Cat. HB-6387

↑	Internal - W(mm) x D(mm) x H(mm)	External - W(mm) x D(mm) x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
MPV0	164 x 119 x 40	173 x 125 x 50	HB-6389	\$24.95	\$22.35	\$19.70
MPV1	186 x 123 x 75	210 x 135 x 90	HB-6388	\$39.95	\$35.95	\$31.95
MPV2	300 x 220 x 90	330 x 280 x 120	HB-6381	\$69.95	\$62.95	\$55.95
MPV4	395 x 320 x 117	430 x 380 x 154	HB-6383	\$99.95	\$89.95	\$79.95
MPV7	480 x 355 x 186	515 x 415 x 200	HB-6385	\$129.00	\$115.95	\$102.95
MPV8	510 x 292 x 175	530 x 355 x 225	HB-6387	\$189.00	\$169.95	\$150.95

Workbench sent to us by: Robert Jaycar Stockist: Batteryland Bairnsdale - Bairnsdale

This is part of my workshop. I am 74 years of age & retired I am very involved in the Nicholson Model sailing Club and building and racing model yachts, metal casting, jewellery making, model steam engines & boats, RC equipment and glass fusing & slumping etc.

I spend at least 8 hours a day on hobbies and could really do with a 36 hour day

For more details, visit:
www.jaycar.com.au/workbench



TOOL CASES & BOXES

Multi-storage Tool Case

Make up your own tool kits? Our computer service tool kits are supplied in these cases. They are made from vinyl and have a zipper to keep them closed. Inside, there is a number of elastic loops to hold the tools in place.

- 17 loops



W(mm) x D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
220 x 320 when open	HB-6390	\$9.95	\$8.75	\$7.75

Aluminium Attaché Case

High quality, all silver case, supplied with tool pallet, which can be removed if not required. Lid includes a document holder and the padded case includes 5 dividers that can be rearranged or removed. Lockable and includes two keys.



W(mm) x D(mm) x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
450 x 320 x 145	HB-6352	\$69.95	\$62.95	\$55.95

Foam Insert Aluminium Attaché Cases

Ideal for Camera, Video and Test Equipment, these cases feature removable 15mm square foam pieces so you can make a hole to the exact size of your valuable equipment. The lid also has a foam insert for complete protection. Cases are lockable and supplied with two keys. Great for wine and glasses also.



W(mm) x D(mm) x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small 407 x 277 x 95	HB-6355	\$44.95	\$40.45	\$35.95
Large 450 x 320 x 145	HB-6356	\$79.95	\$71.95	\$63.95

WATERPROOF ENCLOSURES

IP66 Industrial ABS Enclosures

Gasket seals, stainless steel hardware and IP66 rated for use in industrial, marine and other harsh environments. The closures have a locking catch that engages to positively hold the lid closed until disengaged. Each enclosure includes a 1.8mm galvanised chassis for mounting DIN rail, switchgear, relays or circuit breakers. A size for any application.

- Dimensions: HB-6404: 200(L) x 200(D) x 130(H)mm
HB-6412: 175(L) x 125(D) x 75(H)mm



Cover	Cat.	Qty 1+	Qty 4+	Qty 10+
Opaque lid	HB-6404	\$34.95	\$31.45	\$27.95
Transparent lid	HB-6412	\$34.95	\$31.45	\$27.95

TOOL & INSTRUMENT CASES

IPX8 Waterproof ABS Cases

Black waterproof ABS cases for storing or transporting just about anything including Smartphones, radios, wallets, delicate electronic devices and more. They are fully protected from water, dust, and sludge thanks to a gasket seal and powerful latches. The insides are lined with a layer of protective foam to insulate against bumps and knocks. Bring one on your next camping trip and keep those valuables protected.

- Lanyard included
- Waterproof
- Shockproof

3 models to choose from



Size	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	182	120	42	HB-6421	\$19.95	\$17.70	\$15.70
Medium	182	120	75	HB-6423	\$24.95	\$22.35	\$19.70
Large	210	120	90	HB-6425	\$34.95	\$31.45	\$27.90

4 Tray Tool/Storage Case

On-site storage of parts, tools, fishing tackle or anything else you need to tote around. Each compartment has a 233 x 122 x 32mm 13 compartment storage box for small items with dividers that can be removed to accommodate larger things. All the hinges and catches are the durable pintle type, not a flimsy bit of folded plastic that will snap after a week. The top tray has a generous 265 x 160 x 65 space for ancillary items and it's finished in a tasteful shade of industrial yellow and black.

- Dimensions: 270(W) x 260(H) x 150(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6302	\$24.95	\$22.45	\$19.95

LOOKING FOR STORAGE CASES?

Ideal for carrying small components. See through plastic construction enables the contents to be easily identified. See page 66 for our range.



WORKBENCH EQUIPMENT COMPONENT STORAGE

STORAGE CASES

Ideal for carrying small components and is an indispensable addition to any tool kit. See through plastic construction enables the contents to be easily identified and the 2 snap action latches secure the lid and keep everything in its rightful place.

6 Compartment Mini Storage Case

2 of the compartments have guides to enable them to be divided in half and 2 dividers are included.

- Compartments: 27(W) x 77(L) x 23(D) mm
- Overall size: 125(W) x 85(L) x 27(D) mm.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6308	\$2.75	\$2.45	\$2.15



18 Compartment Storage Box

This storage box consists of three rows with removable dividers so you can configure it for longer parts.

- Compartment size: 37(L) x 37(W) x 30(D)mm
- Dimensions: 230(L) x 115(W) x 35(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6306	\$4.45	\$3.95	\$3.45



18 Compartment Storage Case

The basic box has 6 compartments measuring 43(W) x 37(D) x 167(L)mm. These can be divided into 2, 3 or 4 sub-compartments using the dividers provided.

- Overall size: 274(W) x 40(D) x 175(L)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6312	\$9.95	\$8.75	\$7.75



28 Compartment Storage Case

Can be configured to have anything from 4 big compartments measuring 350(W) x 52(L) x 45(D) mm to 28 compartments measuring 48(W) x 52(L) x 45(D) mm, or anything in between using the dividers provided.

- Overall size: 357(W) x 48(H) x 220(D)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6313	\$14.95	\$13.45	\$11.95



Industrial Storage Cases

Built for the rough and tumble of the building site, factory or workshop. Made from sturdy ABS with solid clasps and removable compartment trays so you can take parts with you to the job. Two sizes available:


15 COMPARTMENT STORAGE

12 compartments: 55(L) x 40(W) x 50(D)mm
3 compartments: 80(L) x 50(W) x 50(D)mm
Case size: 335(L) x 205(W) x 60(D)mm

19 COMPARTMENT STORAGE

4 compartments: 55(L) x 40(W) x 50(D)mm
8 compartments: 80(L) x 50(W) x 50(D)mm
7 compartments: 110(L) x 80(W) x 50(D)mm
Case size: 335(L) x 420(W) x 60(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
15 Compartment	HB-6304	\$9.95	\$8.75	\$7.75
19 Compartment	HB-6305	\$16.95	\$14.95	\$13.35

Portable 12 Compartment Storage Cabinet

We say this is really useful because you can tote it around in your van without spilling the contents. The system features a "double lock" closure on each storage box which should ensure retention of components stored. There are 12 storage compartments, 2 x large measuring 295(W) x 65(D) x 65(H)mm (all are 65(D) x 65(H)mm), 4 medium 145(W) and 6 small measuring 95(W)mm.

The attaché-case outer carrying case measures 300(W) x 310(H) x 145(D)mm. The whole thing is held together with snap locks and 4 hinges.

This is a commercial grade "Tradies" product.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6301	\$44.95	\$40.45	\$35.95

6 Bin Parts Rack Cabinets

SMALL

Similar to our large parts rack, this unit is designed to house smaller items such as ICs, nuts, screws etc.

- Trays measure 60(W) x 65(H) x 45(D)mm each and also tilt down to 45 degrees.
- Can be wall mounted & multiple units can be used for larger storage requirements.
- Overall size: 400(W) x 75(H) x 60(D)mm



LARGE

This handy parts rack holds a variety of components in neat, see through trays that tilt down to an angle of 45 degrees for easy access.

- Each has an integral label holder and measures 85(W) x 95(H) x 65(D)mm.
- The rack can be wall mounted and multiple units can be nested together for larger storage requirements.
- Dimensions are 600(W) x 110(H) x 90(D)mm



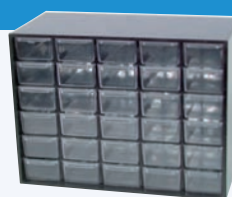
Three units stacked together

⬆	Cat.	Qty 1+	Qty 4+	Qty 10+	
	Small Rack Cabinets	HB-6317	\$9.95	\$8.75	\$7.75
	Large Rack Cabinets	HB-6318	\$24.95	\$22.35	\$19.70

30 Drawer Parts Cabinet

6 rows of 5 drawers, measuring 50(W) x 115(D) x 30(H)mm. Ideal for workshop use & can be wall mounted.

- Stack multiple units together for larger storage
- Overall size 280(W) x 130(D) x 210(H) mm.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6323	\$29.95	\$26.95	\$23.95

33 Drawer Parts Cabinet

A very useful cabinet with 8 rows of 4 pull out drawers (32 drawers) plus one full width pull out drawer at the bottom for larger items (total 33 drawers). Each small drawer is 125mm deep and 65mm wide. The unit can be free standing, or, wall mounted if required. Ideal for storage requirements and workshop.

- Overall dimensions: 414(H) x 304(W) x 135(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6330	\$29.95	\$26.95	\$23.95

DON'T FORGET THESE ACCESSORIES:

Conductive Foam

Non-static reusable sheeting for storing CMOS, IC's, LSI's, etc.

- Will store up to 150 ICs on one sheet
- Size 225 x 150mm.
- Ideal for lining storage trays to provide antistatic protection
- Can be cut with scissors or hobby knife for smaller pieces



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	ZV-9998	\$9.95	\$8.75	\$6.75

SHOW US YOUR WORKBENCHES

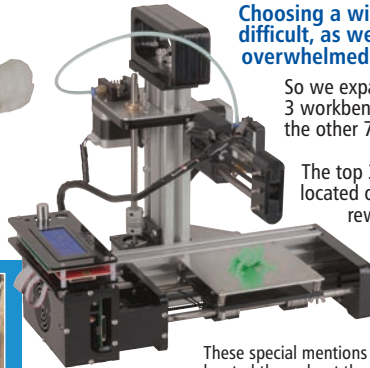


Jaycar

Choosing a winner from our workbench competition has been extremely difficult, as we have received thousands of great entries. We were totally overwhelmed by the huge response to the competition.

So we expanded our prizes to give away not one but ten 3D Printers with the top 3 workbenches receiving our top of the line Dual Filament Printer (TL-4090) and the other 7 runners up receiving our duinotech Mini 3D Printer (TL-4076).

The top 3 workbenches are shown on **page 10** and the seven runners up are located on this page. As we had so many great entries we have decided to reward another 23 outstanding entries with a \$100 Jaycoins Gift Card.



These special mentions are located throughout the catalogue, look for this icon attached to their photograph.



Clever Use of Space



Workbench sent by: Clark Jaycar Store: Newmarket

Two roll-top desks flank the fireplace in our villa lounge. This one is 'his', the other one has books galore on & above & is 'hers'.

Small Workbench



Workbench sent by: Benn Jaycar Store: Campbelltown

This is my tiny workbench next to my study desk in my room that I do all my Jaycar projects on. It's in a bit of a mess as it always is and full of incomplete projects

Mobile Workbench



Workbench sent to us by: Matthew - Jaycar Store: Joondalup

Have built a 3 draw workshop in the back of my ute to house most of the tools for when I need them.

Nerd Perks in Action



Workbench sent to us by: Aaron - Jaycar Store: Gepps Cross

This is my shed where I am building a life size model of R2D2. I'm currently working on the dome lights using the soldering iron and other parts that I purchased from Jaycar. A 3D printer would be a fantastic tool to help me finish this project and move onto my next.

Busy But Tidy Workbench



Workbench sent to us by: Phil - Jaycar Store: Hobart

That's where the real work is done!

Most Unusual Location



Workbench sent to us by: Tony - Jaycar Store: Clovelly Park

Welcome to my mancave, a vintage 1971 Caravan. My little hobby workshop, seen here with some work in progress. The outside is bright retro orange, black & white.

Workbench sent to us by: Trent - Jaycar Store: Launceston

My 12 year old son utilises my 7 metre long work bench the most. He just finished rebuilding his derail on his mountain bike, prior to that repaired one of his friend remote controlled helicopters, is currently modifying his skateboard and getting prepared to build his own iPod® dock. (...think he wants to borrow my soldering iron again? - a real Steve Jobs!)

He starts High School this year and as he struggles with a learning Dis-Order, we have put him in a High School that is very well versed in Hands-On learning. He was very excited last year while attending an orientation day to see that the Tech Lab had recently purchased a couple of 3D printers.

He was so excited as his creative mind flared into action, that if he could one day save up enough pocket money to buy himself one to put on our workbench, then he could build anything! ? (...he would be so pumped to win your gorgeous printer. It would be an amazing start to his Secondary School learning. It would take his confidence to a whole new level)

Longest Workbench



PROJECTS & LEARNING

3D Printing	68	Linker Modules	75
Arduino Compatible Products	73	Mechatronics	104
Breadboards & Jumpers	101	Microscopes	113
Clock Making	110	Modules & Shields - Arduino Compatible	82
Electronic Project Kits	121	Motors & Servos	104
Filament	70	pcDuino	73
Green Power	111	Robotics	107
Kits for Kids	109	Science Kits & Equipment	111
Learning Kits	109	Short Circuits Learning System	114

3D PEN - FREE STYLE CONSTRUCTION

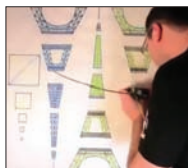
3D Pen

Construct 3D objects in a more natural way. No need to fiddle around with vertices or splines in a complex 3D program. Just hold the pen in your hand and start creating. The pen will melt the inserted plastic and produce a thin extrusion that hardens quickly allowing you to draw a 3D object. There are no size limitations that 3D printers have, you're only limited by the laws of physics.

- Power supply: 24VDC 1.5A
- Nozzle Diameter: 0.7mm
- Pen weight: 160g
- Dimensions: 170(L) x 44(Dia)mm

Plastic to suit:

- 1.75mm 3D Filament PLA - 1kg - TL-4060
- 1.75mm 3D Filament ABS - 1kg - TL-4070



TL-4050



	Cat.	Qty 1+	Qty 3+	Qty 6+
3D Pen	TL-4050	\$129.00	\$115.00	-
1.75mm 3D Filament PLA - 1kg	TL-4060	\$54.95	\$49.45	\$43.90
1.75mm 3D Filament ABS - 1kg	TL-4070	\$59.95	\$53.95	\$47.95

3D PRINTER COMPARISON GUIDE

It's been quite a while since we have seen such rapid development in computer technology. Even PCs did not develop this fast in the '80's! Not only is the printer functionality improving - dual filament etc. - the range of filament materials availability is mind-boggling. We not only have a fabulous range of colours. We also have wood finish, glow-in-the-dark, rubber-like & colour changing materials.

All in all it's an exciting time to be living through this wonderful, emerging technology.



Use our selection guide to help choose...

	TL-4076	TL-4100	TL-4090
Type	Mini 3D Printer	3D Printer Kit with Arduino Control	Dual Filament 3D Printer
Print Height	90mm	250mm	150mm
Print Width	90mm	180mm (circular build area)	230mm
Print Depth	90mm	180mm (circular build area)	130mm
Extruders	1	1	2
Build	Ready to Print	Advanced Kit	Ready to Print
Hot End temperature	250°C	250°C	250°C
Bed Temperature	-	105°C	105°C
Filament Diameter	1.75mm	1.75mm	1.75mm
Printer Size (mm)	300(H) x 360(W) x 280(D)	800(H) x 300(W) x 265(D)	465(W) x 315(H) x 390(D)
Filament Material	PLA	PLA/ABS	PLA/ABS
LCD Screen	✓	✓	✓
SD Card Printing	✓	✓	✓
Page	69	69	70

PRE-BUILT MINI 3D PRINTER

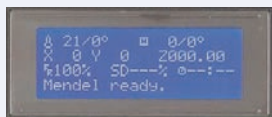
Duinotech Mini 3D Printer

If you're looking to get into the 3D printing game, but feel overwhelmed by the size of the 3D Printers out there, then the TL-4076 Mini 3D printer is for you. Using the tried and tested Marlin firmware, the Mini 3D printer supports SD card and computer-based printing. You could be printing within minutes of opening the box, because everything you need is in the box (computer needed for preparing files). Perfect for beginners or children (12+)

- 90mm x 90mm x 90mm print area
- Supports 1.75mm filament
- Non-heated bed suitable for printing with PLA
- Comprehensive tool kit and spares
- Sample filament
- Dimensions: 300(H) x 360(W) x 280(D)mm

Note: Filament available separately

duinotech



NEW
2016

1
YEAR
WARRANTY

Pre-Built	Cat. TL-4076	Qty 1+ \$499.00
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3D PRINTER KIT

Arduino 3D Printer Kit Single Filament

This 3D Printer sure looks strange compared to the cubic models we're used to, but don't let that fool you, it is every bit as capable.

Unlike other Kit 3D printers, this one doesn't require an advanced degree to assemble. Its elegant open-frame delta design makes assembly straightforward and painless. Use either ABS or PLA filament to make virtually any solid object you wish. The kit includes everything you need to build the printer. Including power supply, motors, controller, extruder and heated bed. The controller also sports an SD card slot, print your objects straight from the card without tying up your computer. The core of the printer is the Arduino-MEGA board (included). Many software packages are available, but we've found Repetier to be the best choice. Join the 3D Printing Revolution today!

- Geometry: DELTA
- Filament Type: PLA/ABS
- Filament Size: 1.75mm
- Heated Print Bed
- Maximum Print Size 220mm diameter
- Dimensions: 800(H) x 300(W) x 265(D)mm

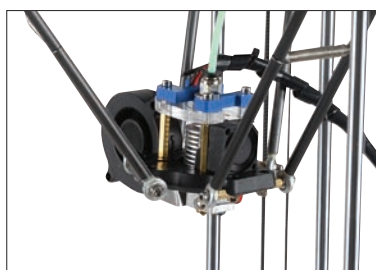
Note: Filament available separately



DIY



duinotech



Kit Form - Assembly Required	Cat. TL-4100	Qty 1+ \$729.00	Qty 3+ \$649.00	Qty 6+ \$579.00
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LEARN MORE WITH THIS FANTASTIC BOOK:

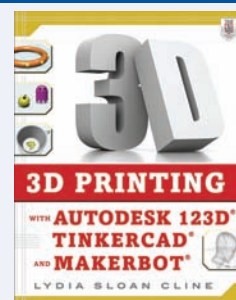
DIY 3D Printing Book

This book compiled on 3D printing with Autodesk 123D, Tinkercad, and MakerBot reveals how to turn your innovative ideas into physical products that you can use or sell! This book will guide you to how to operate powerful, free software from Autodesk and bring your creations to life with the MakerBot - a leading consumer printer - or an online service bureau. The included practical lessons take you through the Design, Catch, Meshmixer, Tinkercad, Make, and CNC Utility apps, and the MakerBot Desktop. Fun projects, easy-to-follow instructions, and clear screenshots progress from installing the software to printing the design. Videos and digital files accompany this hands-on guide.

- Make your own creations with Design and Tinkercad
- Download editable, premade content
- Generate construction documents with the LayOut feature
- Create and edit a reality capture model with Catch
- Edit and mash up .stl files with Meshmixer
- Navigate the MakerBot Desktop
- Print the model on your own machine or with a service bureau



BOOK



Softcover, 302 pages. 274 x 216mm	Cat. BM-7122	Qty 1+ \$44.95
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PRE-BUILT 3D PRINTERS

Pre-Built Dual Filament 3D Printer

This is our most powerful 3D printer. Capable of printing with two colours and/or materials simultaneously, this printer allows you to create far more complex and dynamic prints than ever before. It has an extremely well constructed open-frame sheet metal enclosure, and an intuitive graphical LCD interface. **This printer does not require a computer in order to print!** While the printer can be controlled by a computer running Replicator-G host software, it is ideally used as a stand alone unit, printing files from an SD card*! Now you can print without tying up your computer. The printer provides a heated bed and generously sized glass print plate. Bring your designs into the real world now!

* While a computer is not required in order to print a file from SD card, a computer is required to process 3D models into a printable file.

- Dual Filament Extruders
- Graphical LCD Screen
- USB & SD Card Interface
- Aluminium Heated Bed with glass build plate.
- Sturdy metal enclosure
- Replicator-G and Makerbot Software.



Specifications	TL-4090
Nozzle	2 x 0.35mm
Filament Material	ABS, PLA
Filament Diameter	1.75mm
Maximum Print Size	230(W) x 150(H) x 165(D)mm
Minimum Layer Size	0.1mm
Interface	USB, SD card
Supported OS	Windows
Power	240VAC
Dimensions	465(W) x 315(H) x 390(D)mm
Weight	11kg

Prints two colours simultaneously

	Cat.	Qty 1+	Qty 3+	Qty 6+
Dual Filament - Pre-Built	TL-4090	\$1599.00	\$1439.00	\$1279.00

3D PRINTER FILAMENT

Filament for 3D Printers

These rolls of PLA or ABS Filament suit most 3D printers, including the superceded TL-4020 Velleman model, TL-4050 3D Pen Kit, and our 3 new printers on the previous page.

ABS (Acrylonitrile butadiene styrene) is an impact resistant and tough oil based material made from styrene, acryl and butadiene. It has a higher melting point compared to PLA, requires a heat bed during the printing process, but is stronger and more flexible.

PLA (Polylactic acid) is a biodegradable, environment-friendly plastic with a shiny, glossy appearance. It doesn't have the notable smell of hot plastic, compared to ABS during the printing process. Can provide sharper detail compared to ABS, doesn't necessarily need a heat bed but benefits from cooling during the printing process.

Note: 3mm not suitable for 3D Pen



TL-4110

TL-4112

TL-4114

TL-4116



TL-4118

TL-4120

TL-4122

PLA - 250G:

↑ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	0.25kg	TL-4110	\$15.95	\$14.35	\$12.75
1.75mm	Red	0.25kg	TL-4112	\$15.95	\$14.35	\$12.75
1.75mm	Clear	0.25kg	TL-4114	\$15.95	\$14.35	\$12.75
1.75mm	Green	0.25kg	TL-4116	\$15.95	\$14.35	\$12.75
1.75mm	Blue	0.25kg	TL-4118	\$15.95	\$14.35	\$12.75
1.75mm	Yellow	0.25kg	TL-4120	\$15.95	\$14.35	\$12.75
1.75mm	White	0.25kg	TL-4122	\$15.95	\$14.35	\$12.75

ABS - 1KG ROLL:

↑ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL-4070	\$59.95	\$53.95	\$47.95
3.00mm	Black	1kg	TL-4072	\$49.95	\$44.90	\$39.90

PLA - 1KG ROLL:

↑ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL-4060	\$54.95	\$49.45	\$43.90
3.00mm	Black	1kg	TL-4062	\$54.95	\$49.45	\$43.90

1.75mm 3D Filament 10 Colour Pack

- 10 colours, 5 metres of each colour
- Total Kit Length: 50 metres
- Thickness: 1.75mm

Comes in either ABS or PLA both with these colours:

- Red
- Yellow
- Blue
- White
- Grey
- Orange
- Green
- Sky Blue
- Clear
- Black

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
	ABS	10 x 5m	TL-4052	\$14.95	\$13.45
	PLA	10 x 5m	TL-4054	\$14.95	\$13.45



NEW 2016



3D PRINTER EXOTIC FILAMENT

All filaments feature:

- PLA based
- 1.75mm diameter
- Printing temperature: 190-240 degrees
- 250g roll

WOOD FINISH 3D PRINTER FILAMENT - TL-4124

Perfect for recreating antique furniture and recreating small wooden features. Prints with a smooth finish that is ideal for painting, or even finishing with a wood-burning tool. The colour also suits models of animals and natural creatures. Use with a 3D printer or our TL-4050 3D pen.

- Contains wood, so models smell like wood
- Can be printed at different temperatures to give different colours



TL-4124

COPPER FINISH 3D PRINTER FILAMENT - TL-4126

Did you know that the Statue of Liberty is made of copper? Now you can recreate any similar structure (miniaturised version of course) with this filament. Combine with Brass Finish Filament (TL-4130) for creating steampunk works, or brush with some green paint to give a classic corroded copper patina. Use with a 3D printer or our TL-4050 3D pen.

- Contains copper, giving models weight and excellent thermal properties

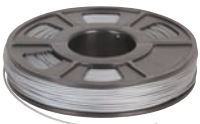


TL-4126

ALUMINIUM FINISH 3D PRINTER FILAMENT - TL-4128

Ideal for printing a classy looking enclosure for your next project. Could also be used to imitate silver or stainless steel. Gives a metallic look without the unwieldy weight normally associated with solid metal objects. Use with a 3D printer or our TL-4050 3D pen.

- Contains aluminium



TL-4128

BRASS FINISH 3D PRINTER FILAMENT - TL-4130

Perfect for recreating copper alloy antiques or for making imitation brass instruments, or combine with Copper Finish Filament (TL-4126) for those steampunk projects. Will not corrode or suffer from "ammonia attack" like the real thing!

- Contains brass, giving models weight and excellent thermal properties



TL-4130



GOLD FINISH 3D PRINTER FILAMENT - TL-4132

Gold colour only. This filament is every costume jeweller's dream come true! Your imagination will be the only limit as you recreate your favourite bracelet, ring or brooch. Create your own gold trophy or medal and thank yourself for a job well done. Use with a 3D printer or our TL-4050 3D pen.



TL-4132

GREEN GLOW IN DARK 3D PRINTER FILAMENT - TL-4134

Print your own bedroom skyscape or other novelty items with glow in the dark filament. Glows after exposure to most light sources.

- White material glows green



TL-4134

FLEXIBLE 3D PRINTER FILAMENT - TL-4136

If you're looking to print something with a bit of bendiness, try our flexible filament. Has excellent adhesion and prints well without splitting. Due to increased flexibility, printer may need modification to guide filament correctly.

- Pale pink skin-like colour



TL-4136

COLOUR CHANGING 3D PRINTER FILAMENT - TL-4138

Create some 3D printed artwork with an enchanting heat activated colour change effect. Colour change occurs below body temperature, so simply holding the printed object will cause the transition.

- Blue material changes to white on exposure to heat



TL-4138

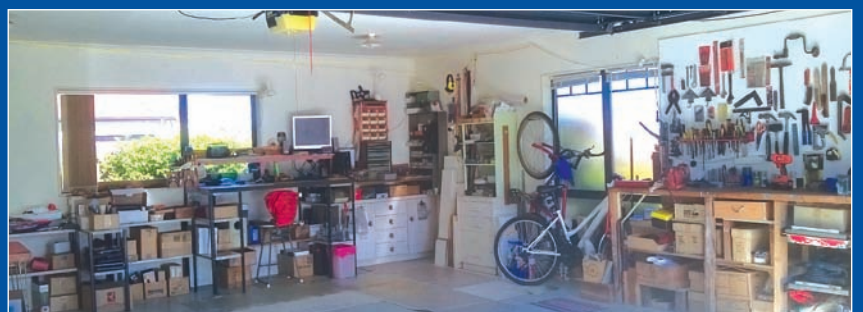


↑	Type	Diameter	Roll	Cat.	Qty 1+	Qty 3+	Qty 6+
Wood	PLA	1.75mm	250g	TL-4124	\$19.95	\$17.95	\$15.70
Copper	PLA	1.75mm	250g	TL-4126	\$24.95	\$22.50	\$19.95
Aluminium	PLA	1.75mm	250g	TL-4128	\$24.95	\$22.50	\$19.95
Brass	PLA	1.75mm	250g	TL-4130	\$24.95	\$22.50	\$19.95
Gold	PLA	1.75mm	250g	TL-4132	\$19.95	\$17.95	\$15.70
Green Glow in the Dark	PLA	1.75mm	250g	TL-4134	\$19.95	\$17.95	\$15.95
Flexible	PLA	1.75mm	250g	TL-4136	\$19.95	\$17.95	\$15.95
Colour Changing	PLA	1.75mm	250g	TL-4138	\$19.95	\$17.95	\$15.95

Workbench sent to us by: Selwyn Jaycar Store: Glenfield NZ

Just moved in and set up my 2 expanded workbenches in our retirement house!

For more details, visit:
www.jaycar.com.au/workbench



RELATED PRODUCTS

FROM
\$99.95
TS-1331



PLASTIC WELDING KIT P37

FROM
\$14.95
TD-2128



NEEDLE FILE SET P60

FROM
\$24.95
TD-2468



MINI ENGRAVER P53

FROM
\$11.50
NP-4260



POLYMORPH PELLETS P102

PROJECTS & LEARNING

3D PRINTING ACCESSORIES

PARTS FOR TL-4100 3D PRINTER

TL-4100 3D Printer Spare Parts

Range of spare parts to keep your TL-4100 Printer in full working order. Happy printing!

Note: Not available at all stores but can be ordered



⬆	Cat.	Qty 1+	Qty 3+	Qty 6+	
	Synchronous Belt Pack	TL-4103	\$14.95	\$13.45	\$11.95
	Main Control Board V1.2	TL-4104	\$129.00	\$114.90	\$99.90
	Stepper Motor Drive Board	TL-4105	\$9.95	\$8.95	\$7.95
	Stepper Motor Short Cable	TL-4106	\$4.95	\$4.45	\$3.95
	Display & SD Card Module	TL-4107	\$29.95	\$26.95	\$23.95
	Stepper Motor	TL-4108	\$49.95	\$44.95	\$39.95
	12V 16A Power Supply	TL-4109	\$89.95	\$80.95	\$71.95
	Heated Print Bed	TL-4111	\$59.95	\$53.95	\$47.95
	Heated Nozzle Assembly	TL-4113	\$39.95	\$35.95	\$31.95
	Teflon Bowden Feed	TL-4115	\$4.95	\$4.45	\$3.95
	M6 Teflon Tube Connector	TL-4117	\$4.95	\$4.45	\$3.95
	Synchronous Wheel for Belt Drive	TL-4119	\$14.95	\$13.45	\$11.95
	Collision Limit Switch Module	TL-4121	\$19.95	\$17.95	\$15.95

PARTS FOR SUPERSEDED TL-4020 3D PRINTER

TL-4020 3D Printer Spare Parts

The parts listed below will keep your TL-4020 K8200 3D printer in tip-top performance condition for years. We have decided to provide a 40% discount on these products for TL-4020 owners. In order to secure your spares, order them NOW so you won't be disappointed when they get scarce! Order through your local store, or ring our Techstore on 1800 022 888.

Note: Not available at all stores but can be ordered



↑	Spare Parts	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	Extruder	TL-4030	\$289.00	\$259.00	\$229.00
↑	Rubber Toothed Belt - 1.5m long	TL-4031	\$44.95	\$40.45	\$35.95
↑	3m Multi-Colour Flat Cable	TL-4032	\$15.95	\$14.35	\$12.75
↑	Linear Bearings 8mm	TL-4034	\$11.95	\$10.75	\$9.55
↑	Linear Bearings 10mm	TL-4033	\$15.95	\$14.35	\$12.75
↑	Stepper Motor 2.5 A Step 1.8	TL-4035	\$99.95	\$89.95	\$79.95
↑	Flexible Z Axis Coupler 5mm x 8mm	TL-4036	\$39.95	\$35.95	\$31.95
↑	Square Nut M5 7.8 x 7.8mm	TL-4037	\$0.98	\$0.88	\$0.78
↑	100K NTC Thermistor 1206 SMD	TL-4038	\$6.95	\$6.25	\$5.50
↑	100K Thermistor for Extruder	TL-4039	\$16.95	\$15.25	\$13.55
↑	Glass Panel 215mm x 215mm x 3mm	TL-4040	\$24.95	\$22.35	\$19.70
↑	Stepper Motor Driver	TL-4043	\$54.95	\$49.45	\$43.95
↑	Nozzle Assembly	TL-4046	\$44.95	\$40.45	\$35.95
↑	Z Axis Rod and Coupler Upgrade NEW	TL-4048	\$239.00	\$214.95	\$190.95
↑	Controller Board	TL-4044	\$398.00		

3D Printer Controller Module to suit TL-4020 3D Printer

Fully operate your TL-4020 3D printer with this module without a PC! This module features an SD card slot, simply place your 3D object file onto the SD card then slot it in to print. Includes real time temperature display and control of the extrude & heated bed temperature. Pre-assembled however the connection cable requires soldering.

- SD card slot • Reset button
- Dimensions: 80(L) x 50(W) x 45(D)mm

Note: You will still require a PC to slice and prepare the 3D file.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	TL-4022	\$169.00	\$151.95	\$134.95

3D Printer LED Light to suit TL-4020

Suitable for use with the TL-4020 K8200 3D printer kit, this pre-assembled unit will illuminate your 3D object while being printed.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	TL-4024	\$64.95	\$58.45	\$51.95



Workbench sent to us by: Tony Jaycar Stockist: Kilmore Lighting & Electrical - Kilmore

This is my workbench where I service, repair and modify stringed instruments (mainly guitars).

Much of my specialist electronic tools and equipment are Jaycar products.

For more details, visit:
www.jaycar.com.au/workbench

pcDuino EXPLAINED

pcDuino3 is a high performance, cost effective single board computer. It can be used for a wide range of applications; for example use the built-in HDMI port and pre-loaded XBMC-Media Centre to make your own home cinema media player. Add a HDD and a wireless keyboard & mouse (such as XC-4943) and you have a great media centre ready to go. Connect to the internet via Wi-Fi or 10/100/1000 Ethernet.

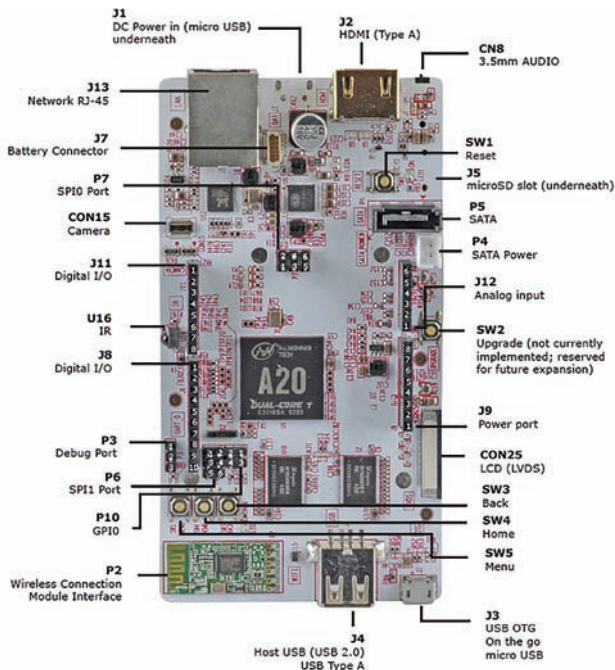


The Arduino style header allows you to connect Arduino shields* described over the next 14 pages of the catalogue, so you can make anything your heart desires. Six Analog inputs and two PWM outputs make for even extra versatility.

Unlike the Raspberry Pi, there is no need to go through the tedious process of preparing a boot SD Card, the pcDuino has a 4GB onboard flash drive that comes pre-loaded with Ubuntu Linux (which you can replace with Android operating system). While you don't need an SD Card, there is a microSD socket available for extra storage. If you need some serious storage space, the pcDuino sports a SATA connector so you can attach a full size HDD.

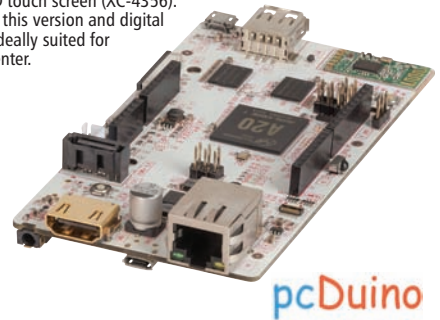
Happy making!

*CAUTION: Unlike the Arduino, the pcDuino operates at 3.3V not 5V. If you want to connect a shield with 5V logic, you must use a voltage step down shield (XC-4362). The Arduino header on the pcDuino still supplies 5V to power your shields, but all inputs must be at or below 3.3VDC.



pcDuino v3.0

The latest version of the pcDuino single-board-computer. This is the full size pcDuino board and includes the LVDS connector to connect an LCD touch screen (XC-4356). Wi-Fi capability is built in to this version and digital audio is supported via I²C. Ideally suited for creating a wireless media center.



Specifications	XC-4350
CPU	AllWinner A20 SoC, 1GHz ARM Cortex A7 Dual Core
GPU	OpenGL ES2.0, OpenVG 1.1, Mali 400 Dual Core
DRAM	1GB
Storage	4GB Flash, microSD card (TF) slot for up to 32GB
Video	HDMI 1.4 with HDCP support
OS	Ubuntu 14.04, Android 4.2
Arduino interface	Arduino sockets, same as Arduino UNO
Network interface	14xGPIO, 2xPWM, 6xADC, 1xUART, 1xSPI, 1xI2C
Audio out	Built-in WiFi, Ethernet 10M/100Mbps/1Gbps
LCD	3.5mm analog audio interface, I2S stereo digital audio interface
IR	LVDS
SATA	IR receiver
USB	SATA Host socket
Power	1 x USB host, 1xUSB OTG
Dimensions	5V, 2000mA
	121(L) x 65(W)mm

	Cat.	Qty 1+	Qty 3+
pcDuino V3.0 with Wi-Fi	XC-4350	\$129.00	\$115.95

7" LCD Touch Screen Monitor to suit XC-4350 pcDuino

This is a custom made 7" LVDS colour LCD with capacitive touch for pcDuino3 (XC-4350). It has a resolution of 1024x600, and comes with an LVDS screen with driver board, a ribbon cable and 10 pieces of male to female jumper wires.

- Resolution: 1024 x 600
- Dimensions: 167(L) x 107(W) x 10(D)mm



Note: pcDuino not included

	Cat.	Qty 1+	Qty 5+
7" LCD	XC-4356	\$149.00	\$134.95

pcDuino - TRY BEFORE YOU BUY

We are so impressed by the pcDuino we have set up an interactive display in our stores to show you how fantastic they really are. If you're still not sold on the power of pcDuino, we invite you to pop into our store and see the pcDuino in action for yourself. We have attached a 7" Touch Screen (XC-4356) and programmed the pcDuino (running on Ubuntu Linux) to demonstrate the following:

XBMC:

All in one Media Centre - perfect for the car, or just for the TV at home.

Arduino IDE:

Program and programmer all in one - plug in a keyboard and mouse, and watch your sketches work on the same machine you've developed them on.

Scratch:

Want to program but don't like the look of pages of dense code? Have a look at Scratch - drag and drop blocks to assemble code, and your programs can even interact with sound and animations.

Chromium Browser:

A fully featured browser is available with just a click.

Ubuntu 14 apps:

All your essential utility apps like media player, text editor, file manager, and calculator. Sample scripts: See how easy it is to control the output pins by a single click of icons on the desktop. Octoprint: 3D Printer Management with web interface.

Connectivity:

Wi-Fi, USB and USB OTG, Ethernet, SATA, Serial Debug, 3.5mm Analog and I2S Digital Audio.



pcDuino (CONTINUED)

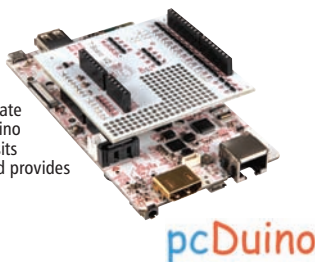
Voltage Converter Module for pcDuino

While most Arduino shields run at 5V, the pcDuino runs at 3.3V. Directly connecting a 5V shield to the pcDuino will cause immediate damage. This shield safely marries 5V Arduino shields with the 3.3V pcDuino. This shield sits between the pcDuino and the 5V shield and provides bi-directional voltage translation.

- Dimensions: 70(L) x 50(W) x 4(D)mm

Note: pcDuino not included

	Cat.	Qty 1+	Qty 4+
Voltage Converter	XC-4362	\$29.95	\$26.95



pcDuino 5MP Camera

This 5M pixel camera module is capable of capturing 2592 x 1944 active array video and images and connects directly to your pcDuino V3. Connect the included ribbon cable to the CSI (Camera Serial Interface) port on your pcDuino, boot it up, and you are good to go! The real strength of this camera module comes from the OV5640 image sensor. The OV5640 is a high quality CMOS image sensor, for mobile phone camera and digital camera applications.

The OV5640 incorporates a 2592 x 1944 active array, on-chip 10-bit ADC, and image signal processor. It outputs various data formats, such as RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422.



	Cat.	Qty 1+	Qty 5+
	XC-4364	\$59.95	\$53.95

SATA Cable for pcDuino

This SATA cable kit connects your pcDUINO3 to a hard drive or SSD. It is a simultaneous power and data line that enables you to operate your device simply and easily.

- Length: approx. 150mm

Note: Does not include hard drive or pcDuino

See page 339 for our 1TB HDD



	Cat.	Qty 1+	Qty 5+
	XC-4366	\$9.95	\$8.75



Workbench sent to us by: Holm Jaycar Store: Hornsby
Mad scientist and crazed inventor

For more details, visit: www.jaycar.com.au/workbench

Scratch Learning Kit with pcDuino

This Scratch Kit has been designed to be a valuable resource for electronics and computer science education. It provides various modules, all of which can be connected to the pcDuino board via 4-pin modular cables. This makes it virtually impossible for modules to be connected incorrectly. Once modules are connected, students can write programs via the pcDuino's User friendly GUI. A host of analogue and digital modules are provided.

Note: pcDuino sold separately.

Kit Includes:

- 1 x Linker base shield
- 1 x Linear slide potentiometer
- 1 x Button module
- 1 x Buzzer module
- 1 x joystick module
- 1 x Light Dependant Resistor module
- 1 x Temperature sensor module
- 10 x 10k resistors
- 1 x LED module, RED.
- 1 x LED module, GREEN

pcDuino

Note: pcDuino board sold separately



	Cat.	Qty 1+	Qty 5+
Kit	XC-4358	\$199.00	\$179.00
pcDuino V3.0	XC-4350	\$129.00	\$115.95

TECH TALK!

ABOUT SCRATCH & S4A

Scratch is an easy to learn technology language designed by MIT Media Labs and is mainly intended to introduce programming to children aged 7 to 16. The Arduino community have modified Scratch and created S4A. S4A allows for simple programming of the Arduino open source hardware platform. It provides new blocks for managing sensors and actuators connected to Arduino.



Arduino objects offer blocks for the basic microcontroller functionalities, analogue and digital writes and reads, and also for higher level ones. In S4A, an Arduino board is represented by a special kind of sprite. The Arduino sprite will automatically find the USB port where the board is connected. It is possible to connect to multiple boards at the same time by just adding a new Arduino sprite.

Components have to be connected in a particular way. S4A allows for 6 analog inputs (analog pins), 2 digital inputs (digital pins 2 and 3), 3 analogue outputs (digital pins 5, 6 and 9), 3 digital outputs (pins 10, 11 and 13) and 4 special outputs to connect Parallax continuous rotation servomotors (digital pins 4, 7, 8 and 12). A board can be managed wirelessly by attaching an RF module to it, such as Xbee. S4A allows control of many boards as USB ports that are available.

S4A is backwards compatible with Scratch, so you can open Scratch projects in it. However, you won't be able to share your projects on the Scratch community website because doing so goes against the Scratch terms of use.

Enclosures to suit pcDuino V3.0 & V3.0 Nano

House your pcDuino in one of these enclosures for a safe and presentable appearance



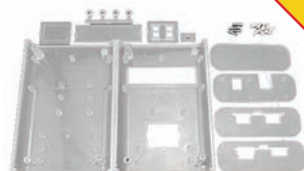
Product may vary from one shown

	Cat.	Qty 1+	Qty 5+
Black to Suit XC-4350	XC-4354	\$19.95	\$17.95
Black to Suit XC-4352	XC-4355	\$19.95	\$17.95

Clear Enclosure for Arduino & pcDuino

This clear enclosure is for both Arduino and pcDuino main boards including the Uno, Leonardo and Mega etc. Two special end pieces are included for access to ports on pcDuino. Several Arduino boards can be stacked and used at the same time as well, the enclosure can be expanded with extension side plate.

- Made of ABS plastic for thermostability and rigidity
- Easy to machine, drill, cut and shape
- Brass screw inserts
- Pop out plates for PGS, buttons, sensors, switches, knobs and etc
- Hold up to 4 AAA batteries internally using 2 AAA holders



	Cat.	Qty 1+	Qty 5+
	XC-4591	\$15.95	\$14.35

LINKER MODULES & ACCESSORIES

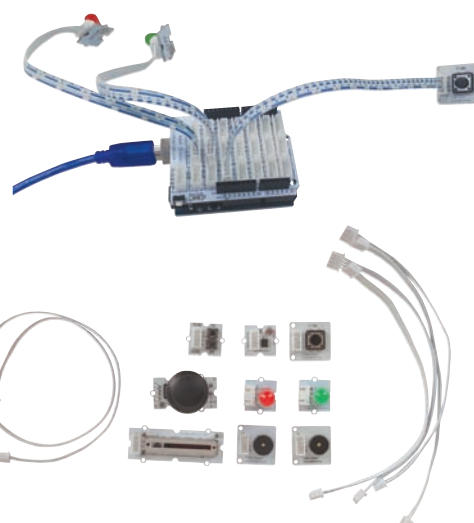
We are excited to announce a new range of modules & accessories called "Linker", which makes it very easy to enter the world of Arduino. No reading datasheets to work out which wire goes where; simply attach the Linker Shield to your main board (Uno, Leonardo and Mega will all work with Linkers), then connect them all together using the Linker Leads. The Linker Leads will only plug in one way, so there's no chance of shorting anything out by wiring it wrong.

Combine the Linkers with a graphical programming environment like Scratch or ArduBlock, and kids can easily experience the creativity of get into Arduino.

There are over twenty products in the Linker range, from LEDs and a buzzer to light, temperature, position and magnetic sensors, and even a graphical OLED display.

What about big kids? Just because you're using the Linker Shield doesn't mean you're limited. The Linker Shield has standard Arduino headers, allowing you to use pretty much anything that can be used with Arduino to further expand.

Like the look of a Linker module, but don't want to get the whole range? The standard Linker header will also accept our standard Arduino compatible jumper cables. You're free to mix and match!



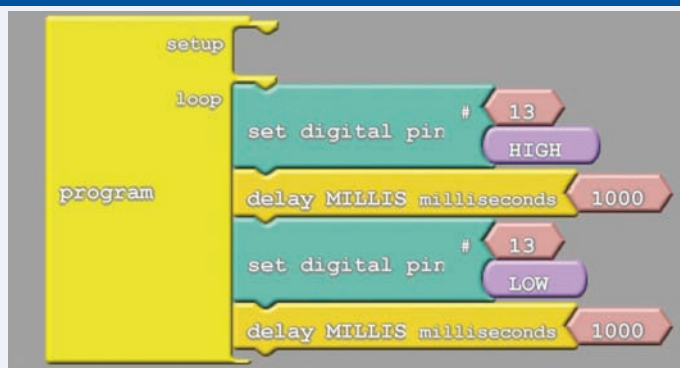
PROGRAMMING MADE EASY WITH ARDUBLOCK

If you are just starting out or just can't get your head around programming your Arduino project then ArduBlock makes it easy.

ArduBlock is a graphical drag-and-drop type programming environment for Arduino. It's also ideal for kids!

By dragging and dropping colour coded blocks into the workspace, a fully functioning Arduino program can be created within minutes. But just because ArduBlock is easy doesn't mean it's not powerful. You have access to most Arduino IDE functions and a few libraries as well. And to help you make the transition to the full Arduino IDE, ArduBlock also turns your blocks into standard Arduino code as well. Brilliant!

To learn more about ArduBlock visit
www.jaycar.com.au/ardublock



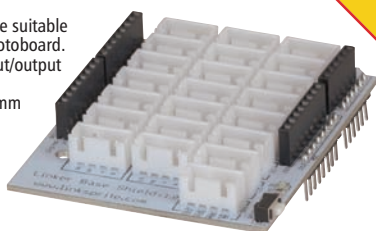
The diagram shows you how simple it is to program the classic Arduino 'Blink' program using ArduBlock.

LINKER ESSENTIALS

Linker Base Shield for Arduino

This is the base shield of Linker kit, it allows simple and tidy connection between all Linker sensors/modules and Arduino/pcDuino. Linker kit is more suitable for starters than breadboard or protoboard. You simply connect the Linker input/output modules to your Arduino/pcDuino projects with clearly marked 2.54mm headers instead of I/O pins.

- Connections: 1 x SPI, 2 x IIC, 1 x UART
- Dimensions: 69(W) x 59(H) x 18(D)mm



↑	Cat.	Qty 1+	Qty 5+
	XC-4557	\$24.95	\$22.45

Linker Jumper Leads for Arduino

Connects Linker kit sensors/modules and Linker kit base shield. 2.54mm headers for easy and tidy connection.

- 4 pins, 2.54mm spaced
- Sold individually



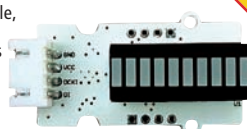
↑		Cat.	Qty 1+	Qty 5+
	200mm	Each	XC-4558	\$4.95 \$4.45
	500mm	Each	XC-4559	\$4.95 \$4.45
	1000mm	Each	XC-4560	\$4.95 \$4.45

LINKER MODULES

Linker LED Bar for Arduino

This LED bar is a standard Linker kit module, so it can connect to Arduino or pcDuino easily via the base shield. The LED bar has 10 light gauges to use as an indicator for various measurements.

- Driver Chip: MY9221
- Dimensions: 44.1(W) x 24.2(H) x 11.5(D)mm



↑	Cat.	Qty 1+	Qty 5+
	10 Segments	XC-4568	\$9.95 \$8.75

Linker 4-Digit 7-Segment Module for Arduino

This Linker 4-digit 7-segment module uses a chipset of TM1637 to drive a 12-pin 4-digit common anode 7-segment LED. It is an ideal module to use as timer or clock. The MCU only needs two GPIO lines to control it.

- Dimensions: 46.2(W) x 24.3(H) x 14.5(D)mm



↑	Cat.	Qty 1+	Qty 4+
	4-Digit 7-Segment	XC-4569	\$11.95 \$10.70

LINKER MODULES (CONTINUED)

Linker High Power LED Module for Arduino

This is a high power LED module for the Linker kit. It has five very bright white LEDs to use as lamp or camera flash.

Specifications	XC-4570
LEDs	SMD 3528
Working Voltage	3.0-3.4V
Operating current	20mA
Dimensions	28.9(W) x 20(H) x 9.5(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 5+
5 LED	XC-4570	\$13.95	\$12.35

Linker Momentary Push Button Switch for Arduino

A standard 12mm square momentary button mounted for the Linker connection. The button is big and has a solid tactile click for assurance. Can be used as an input or as a reset button.

- Dimensions: 26(W) x 25(H) x 10.9(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 4+
6V 40mA	XC-4571	\$4.95	\$4.45

Linker LEDs for Arduino

Linker LED Module is designed for beginners of Arduino/pcDuino to monitor controls from digital ports. It can be mounted to your project easily and used as pilot lamp for power or signal. Its brightness can be adjusted by potentiometer.

LINKER 3mm MODULES

Available in three colours green, red and yellow (purchased separately)

- LED Size: 3mm
- Dimensions: 23(W) x 24.2(H) x 9.5(D)mm



XC-4561

LINKER 10mm MODULES

Available in four colours blue, green, red and yellow (purchased separately)

- LED Size: 10mm
- Dimensions: 20.4(W) x 24.2(H) x 21(D)mm



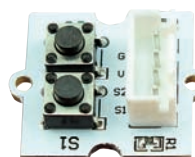
XC-4564

	Colour	Size	Cat.	Qty 1+	Qty 5+
	Green	3mm	XC-4561	\$4.95	\$4.45
	Red	3mm	XC-4562	\$4.95	\$4.45
	Yellow	3mm	XC-4563	\$4.95	\$4.45
	Blue	10mm	XC-4564	\$5.95	\$5.35
	Green	10mm	XC-4565	\$5.95	\$5.35
	Red	10mm	XC-4566	\$5.95	\$5.35
	Yellow	10mm	XC-4567	\$5.95	\$5.35

Linker Double Button Module for Arduino

Two momentary push buttons mounted on a single board for Arduino/pcDuino via the Linker connection. Can be used as a pair of reset and switch buttons.

- Dimensions: 25(H) x 21(W) x 11(D)mm



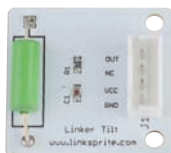
NEW
2016

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4573	\$4.95	\$4.45	\$3.90

Linker Tilt Module for Arduino

The Linker Tilt Module is the equivalent of a button, and is used as a digital input. Inside the tilt switch is a pair of balls that make contact with the pins when the case is upright. Tilt the case over and the balls don't touch, thus not making a connection. It is wired to the SIG line, NC is not used on this kit.

- Dimensions: 28(L) x 26(W) x 11(D)mm



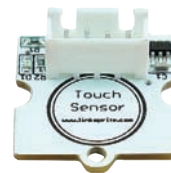
NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4575	\$4.95	\$4.45	\$3.90

Linker Touch Sensor for Arduino

A capacitive touch sensor to replace a push button. Low in power consumption, fast response and easy to operate. Voltage reads 0V when idle, changes to 5V when touched.

- Dimensions: 28(W) x 24(H) x 8(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4572	\$10.95	\$9.85	\$8.75

Linker Light Sensor for Arduino

The light sensor, also known as the light dependent resistor (LDR). Typically, the resistance of the light sensor will decrease when the ambient light intensity increases.



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4574	\$6.95	\$6.25	\$5.55

Linker Temperature Module for Arduino

The Linker Temperature Module uses a thermistor to detect the ambient temperature. The resistance of a thermistor will increase when the ambient temperature decreases. It's this characteristic that we use to calculate the ambient temperature.

- Dimensions: 20(L) x 20(W) x 11(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4576	\$6.95	\$6.25	\$5.55

Linker Hall Sensor for Arduino

This hall module hosts an magnetic hall sensor that senses the presence of magnetic field. If there is an magnetic field present, it will report a high level signal.

- Dimensions: 20(L) x 24(W) x 11(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4577	\$14.95	\$13.35	\$11.70

Linker Rotary Potentiometer Module for Arduino

The Linker Rotary Potentiometer Module produces analog output between 0 and Vcc (5V DC with Arduino) on its D1 connector. The D2 connector is not used. The angular range is 300 degrees with a linear change in value. The resistance value is 10k, perfect for Arduino use.

- Dimensions: 25(L) x 25(W) x 19(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4578	\$6.95	\$6.25	\$5.55

Linker Linear/Slide Potentiometer Module for Arduino

The slide potentiometer is a linear variable resistor with a total resistance of 10k. When you move the lever from one side to the other, its output voltage will range from 0V to the VCC you apply. It has four pins, 3 of which are connected to VCC, GND and the ADC IN on the slide, while the remaining pin is connected to a red indicator LED. You can use the indicator LED to visually display the change on the potentiometer.

- Dimensions: 60(L) x 24(W) x 20(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4579	\$15.95	\$14.35	\$12.75

LINKER MODULES (CONTINUED)

Linker Buzzer Module for Arduino

This buzzer module will generate around the audible 2KHz range.

- Dimensions: 25(L) x 25(W) x 11(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4580	\$5.95	\$5.35	\$4.75

Linker Magnetic Switch Module for Arduino

This is a magnetic switch module with Linker kit standard connection. It is based on encapsulated dry reed switch of single-pole, single throw (SPST) type, having normally open ruthenium contacts. The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both. The magnetic switch is a wonderful tool for designers who would like to turn a circuit on and off based on proximity.

- Dimensions: 20(L) x 24(W) x 11(D)mm



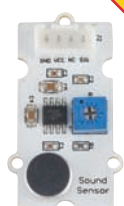
NEW
2016

	Cat.	Qty 1+	Qty 3+
↑	SPST XC-4581	\$9.95	\$8.75

Linker Sound Sensor for Arduino

This is a simple microphone. Based on the power amplifier LM386 and the electret microphone, it can be used to detect the sound strength of the environment. The value of output can be adjusted by a potentiometer.

- Dimensions: 42(W) x 24(L) x 11(D)mm



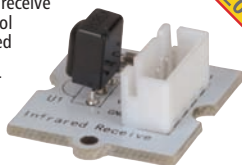
NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4582	\$14.95	\$13.35	\$11.70

Linker Infrared Receiver Module for Arduino

The Linker Infrared Receiver Module is used to receive infrared signals and also used for remote control detection. There is an IR detector on the Infrared Receiver which is used to get the infrared light emitted by the Infrared Emitter. The IR detector has a demodulator inside that looks for modulated IR at 38KHz. The Infrared Receiver can receive signals well within 10 metres.

- Dimensions: 21(W) x 25(L) x 12(D)mm



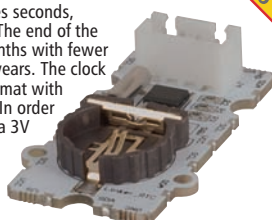
NEW
2016

	Cat.	Qty 1+	Qty 3+
↑	XC-4583	\$9.95	\$8.75

Linker RTC for Arduino

The Linker RTC module is based on the clock chip DS1307, which supports the I2C protocol. It utilises a Lithium cell battery (CR1225). The clock/calendar provides seconds, minutes, hours, day, date, month, and year. The end of the month date is automatically adjusted for months with fewer than 31 days, including corrections for leap years. The clock operates in either the 24-hour or 12-hour format with AM/PM indicator. And it is valid up to 2100. In order to gain a robust performance, you must put a 3V CR1225 lithium cell in the battery-holder. If you use the primary power only, the module may not work normally, because the crystal may not oscillate.

- Dimensions: 42(L) x 24(W) x 11(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4584	\$19.95	\$17.70	\$15.70

STORE DETAILS

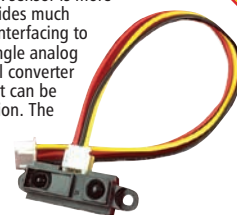
For store locations and opening hours see the back cover of this catalogue or visit our website.



Linker Infrared Distance Sensor for Arduino

This sharp distance sensor is a popular choice for many projects that require accurate distance measurements. This IR sensor is more economical than sonar rangefinders, yet it provides much better performance than other IR alternatives. Interfacing to most microcontrollers is straightforward: the single analog output can be connected to an analog-to-digital converter for taking distance measurements, or the output can be connected to a comparator for threshold detection. The detection range of this version is approximately 100mm to 800mm.

- Dimensions: 30(L) x 13(W) x 13.5(D)mm



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4585	\$29.95	\$26.95	\$23.95

Linker Serial Servo Module for Arduino

Serial Servo Driver is a servo driver board that can drive up to 8 servos with a precision of 5us. The communication interface is TTL UART serial port, and compatible with Linker kit interface.

Specifications	XC-4586
Number of channels	8
Driving frequency	50Hz (a period of 20ms)
Communication Interface	UART (a form factor of Linker kit), baud rate 9600
Precision	5us (1LSB of the duty cycle)
Optional External power supply	6V-15V



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4586	\$39.95	\$35.90	\$31.90

Linker Vibration Sensor Module for Arduino

This vibration sensor module uses a spring based sensor. When there is vibration, it will output a digital signal. The SW-18010P series spring type used is a non-directional trigger switch. Switch is open circuit OFF-state when it is static, and when external force results in a corresponding vibration, or movement speed gathers enough centrifugal force, conductive pick feet will produce instant conductivity and circuit goes to On-state.



NEW
2016

	Cat.	Qty 1+	Qty 3+
↑	XC-4587	\$9.95	\$8.75

Linker Flame Sensor Module for Arduino

Flame sensor module of Linker kit is only sensitive to the light in the frequency band of infrared and ultraviolet. This breakout board has 3 useful pins: sensor output signal, power, and ground. The sensor output signal is an analog signal. In an indoor environment, the signal output is around 0V. When there is flame or other infrared source, the voltage of output signal will increase. When the intensity of light is high, it can output as large as 3V.



NEW
2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4588	\$10.95	\$9.85	\$8.75

Linker Path Tracking Sensor Module for Arduino

This sensor module uses a reflective infrared sensor (tcr500). The infrared light is emitted and reflected back to the receiver, it's then inverted by 74LS14 and output to the output pin and the LED. The output signal is a digital signal. There are 3 active pins: output signal, power supply and ground.

On a white surface, the output signal will be HIGH. On a black/non-reflective surface, the output signal will be low and the LED is off. The working distance from the sensor to the surface is around 15mm.



NEW
2016

	Cat.	Qty 1+	Qty 3+
↑	XC-4590	\$9.95	\$8.75

DUINOTECH INTRODUCTION

Last year we expanded our range of Arduino compatible products by introducing the extensive range of boards, modules, shields and accessories from duinotech. The products have been a huge hit, so we've had our product buyers busy finding more exciting products for the range. We are delighted to announce that over 70 new Arduino related products has been added to this year's catalogue line-up. Check out our new Experimenter's kit (XC-4287) shown below, Lilypad board on page 80, and huge LED displays on page 99 to name just a few.

If you're looking for modules to build an Arduino-based weather station or a garden monitor, then our new Rain Sensor XC-4603 on page 89 and Soil Moisture Sensors XC-4604 on page 88 will be a handy addition.

duinotech

Another noteworthy addition is the Wi-Fi shield XC-4614 on page 83. It has a processor even more powerful than most Arduino boards and an easy-to-use web-based interface. It can be programmed to work stand-alone as an Arduino Main Board with a Serial-USB converter XC-4464 on page 82.

If you're looking for inspiration, our Arduino expert has put together some interesting duinotech projects, which are described throughout this Projects section. We're working on more, so keep an eye out in our monthly Hardcore flyers and website.

Happy building!

EXPERIMENT KITS FOR ARDUINO

Looking to get into Arduino but don't quite know where to start? Our range of experiment kits are the answer. Each kit contains a duinotech board, a breadboard, jumper wires and a plethora of peripherals. Each kit comes in a plastic organiser. See below for a comparison of our different offerings.

duinotech

duinotech Nano Kit

- 1 x duinotech Nano
- 1 x Nano to full-size adapter shield.
- Assorted Jumper wires
- Assorted Resistors
- 2 x Light Dependant Resistors
- 1 x IR Remote Receiver
- 4 x Tactile Switches
- Assorted LEDs
- 1 x Seven Segment Display
- 1 x 50k Potentiometer
- 1 x Solderless breadboard



duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4285	\$79.95	\$71.95

duinotech MEGA Kit

- 1 x duinotech MEGA
- 1 x Solderless breadboard
- USB Cable
- 1 x 4 Digit Seven Segment Display
- 1 x 1 Digit Seven Segment Display
- 1 x 8x8 Dot Matrix Display
- 1 x 6AA battery holder
- Assorted Resistors
- Assorted LEDs
- RGB LED Module
- 4 x Tactile switches
- 2 x Piezo Sounders
- Assorted Jumper wires
- 1 x 74HC595 Shift Register
- 1 x 50k Potentiometer
- 2 x Light Dependant Resistors
- 1 x Infrared Photo Diode
- 1 x Infrared Remote Receiver
- Analog Temperature Sensor
- 1 x 17 Button IR remote control
- 1 x Solderless breadboard.
- 1 x 40-pin header
- 1 x Two channel relay module
- 1 x 2x16 LCD Display



duinotech

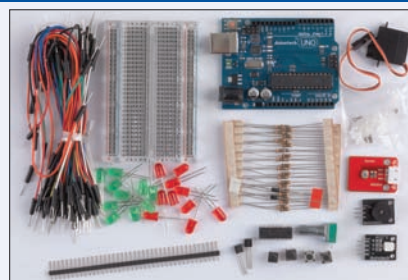
	Cat.	Qty 1+	Qty 3+
	XC-4286	\$109.00	\$97.95

Arduino Experimenters Kit by duinotech

A comprehensive kit for experimenting with Arduino. It includes an Arduino compatible duinotech Uno board, a solderless breadboard and an extensive range of components, sensors, modules and jumper leads. Build your own projects or build the projects with sample code described in the supplied colour book.

If you're just starting out in Arduino or want to expand your collection of Arduino components then this kit is great value for money. It also make a great gift idea!

- Arduino compatible: can be expanded with many duinotech products
- No soldering required
- Includes switches, jumper wires, buttons, lights, shift register IC and more



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4287	\$89.95	\$80.95	\$71.95

Workbench sent to us by: John Jaycar Store: Belconnen

This a project my kids and I have been working on since 1987...it is nearly there it just needs some 3d printed bits and we are good to go :-)

For more details, visit:
www.jaycar.com.au/workbench

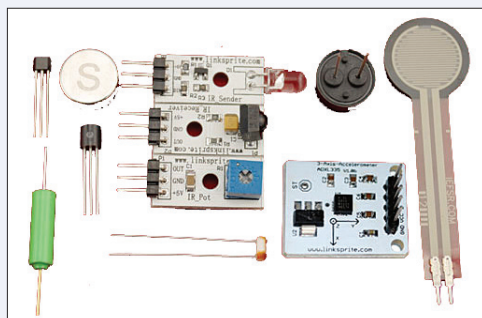


EXPERIMENT KITS FOR ARDUINO (CONTINUED)

9 Piece Sensor Pack for Arduino

This sensor pack for Arduino includes the following components:

- 1 x IR Receiver Sensor
- 1 x Tilt Sensor
- 1 x Photo Cell Sensor
- 1 x Temperature Sensor
- 1 x Buzzer
- 1 x Hall Effect Sensor
- 1 x Magnet for use with Hall Effect Sensor
- 1 x ADXL 335 Triple Axis Accelerometer
- 1 x Force Sensitive Resistor



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4593	\$79.95	\$71.95	\$63.95

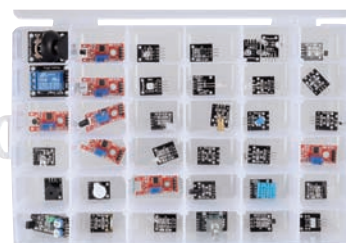
Deluxe Modules Package

With 37 different sensors and modules, this kit covers just about every input and output you can poke a soldering iron at. Packaged in a clear plastic organiser.

- Contains:
- Joystick Module
 - Relay Module
 - Small Microphone Module
 - Large Microphone Module
 - Line Tracking Sensor
 - Obstacle Avoidance Sensor
 - Flame Sensor Module
 - Hall Effect Sensor
 - Touch Sensor
 - Digital Temperature Sensor
 - Buzzer Module
 - Passive Buzzer/Sounder
 - RGB LED Module
 - SMD RGB LED Module
 - Two Colour LED Module
 - Reed Switch Module
 - Mini Reed Switch Module
 - Heartbeat Sensor
 - Seven Colour Flashing LED Module
 - Laser Module
 - Tactile Switch Module

- Shock Sensor
- Rotary Encode Module
- Tilt Switch Module
- Ball Switch Module
- Light Dependant Resistor Module
- Temperature and Humidity Module
- Digital Temperature Sensor
- Analog Temperature Sensor
- IR Transmitter Module
- IR Receiver Module

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	Cat.	Qty 1+	Qty 3+
	XC-4288	\$129.00	\$115.95

LEARN MORE WITH THESE FANTASTIC BOOKS:

Programming Arduino: Getting Started with Sketches

This entry level book explains what an Arduino microcontroller actually is (i.e. a very small stand alone computer), introduces you to the Arduino programming language (called, "C") and then describes the basic configurations of Arduino modules. After this, the book really begins. It then goes into the detail of getting Arduino's to deal with the real world, finishing with a discussion on C++ and more sophisticated applications.

- Soft cover, 162 pages.
- 138 x 215mm

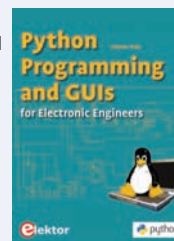


	Cat.	Qty 1+
	BM-7133	\$24.95

Python Programming and GUIs

This book is aimed at engineers, scientists and hobbyists who want to interface PCs with hardware projects using graphic user interfaces. The book covers both desktop and web based applications. It guides you through starting with Linux® by way of a free downloadable, live bootable distribution that can be ported around different computers without requiring hard drive installation. Practical demonstration circuits and downloadable, full software examples are provided that can be the basis for further projects. It also shows you how you can customize your own live Linux® bootable CD to include your own projects.

- Soft cover, 224 pages. 235 x 170 x 14mm

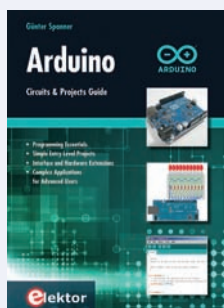


	Cat.	Qty 1+
	BT-1380	\$59.95

Arduino Circuit & Projects Guide

This book is aimed at those who have already had some basic experience in electronics. Typical high school level circuits, Ohm's law, etc., are sufficient. The function and behaviour of the major electronic components are well covered in this book. During the basic chapters, more elaborate projects are discussed, so that even students and teachers who have some pre-existing technical knowledge will encounter new challenges. The skill and experience level required for these projects ranges from absolute beginner, to hobbyist-expert. Beginners will benefit from progressing through the book as they build their skills, while experienced readers will find it a useful handbook.

- Programming essentials
- Simple entry level projects
- Interface and hardware extensions
- Complex applications for advanced users
- Soft cover, 260 pages. 235 x 170 x 15mm



	Cat.	Qty 1+
	BM-7142	\$69.95

Programming Android Apps

When it comes to personalising your Smartphone don't feel limited to off the shelf applications. Creating your own apps and programming Android® devices far is easier than you might think. This book is an invaluable introduction to programming apps for Android® devices. The book explains the operation of the Android® OS in a clear step-by-step method.

The book offers a wide range of applications based on hands-on examples, covering everything from simple math programs, reading sensors and GPS data, right up to programming for advanced Internet applications. Besides writing applications in the Java programming language, this book also explains how apps can be programmed using Javascript and PHP.

- Soft cover, 244 pages. 234 x 169 x 14mm



	Cat.	Qty 1+
	BT-1382	\$64.95

TECH TALK!

ARM PROCESSOR ARCHITECTURE

An ARM processor is one of a family of CPUs based on the RISC (reduced instruction set computer) architecture developed by Advanced RISC Machines (ARM).

ARM makes 32-bit and 64-bit RISC multi-core processors. RISC processors are designed to perform a smaller number of types of computer instructions so that they can operate at a higher speed, performing more millions of instructions per second (MIPS). By stripping out unneeded instructions and optimising pathways, RISC processors provide outstanding performance at a fraction of the power demand of CISC (complex instruction set computing) devices.

ARM processors are extensively used in consumer electronic devices such as Smartphones, Tablets, multimedia players and other mobile devices, such as wearables.

Because of their reduced instruction sets, they require fewer transistors, which enables a smaller die size for the integrated circuitry (IC). The ARM processor's smaller size, reduced complexity and lower power consumption makes them suitable for increasingly miniaturised devices.

ARDUINO COMPATIBLE BOARDS

ARDUINO COMPARISON GUIDE

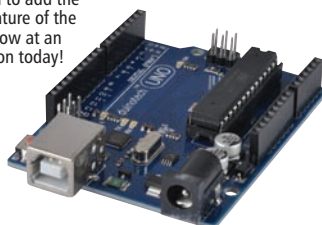
Use our selection guide to help choose...

	XC-4414	XC-4620	XC-4410	XC-4430	XC-4420
Name	duinotech Nano	duinotech Lilypad	duinotech Uno	duinotech Leonardo	duinotech Mega
Controller	ATMega 328P	ATMega 32u4	ATMega 328P	ATMega 32u4	ATMega 2560
Program Memory	32kB	32kB	32kB	32kB	256kB
RAM	2kB	2.5kB	2kB	2.5kB	8kB
EEPROM	512 bytes	1kB	512 bytes	1kB	4kB
Digital IO	14	5	14	20	54
Analog IO	6	4	6	6	16
PWM Pins	6	4	6	7	15
USB Connector	USB-B Mini	USB-B Micro	USB-B	USB-B Micro	USB-B
Shield Compatible	-	-	✓	✓	✓
Dimensions (mm)	46 x 18 x 18	51 x 50 x 7	75 x 53 x 13	73 x 53 x 13	108 x 53 x 15
Page	80	80	80	81	80

duinotech Classic (UNO R3)

The flagship of our duinotech family, the duinotech Classic is a 100% Arduino® Compatible development board. Its stackable design makes adding expansion shields a piece of cake. Powered from 7-12VDC or from your computer's USB port. In the past few years the Arduino® has taken the electronics world by storm. Everyone from hobbyists to professional engineers is making use of its limitless versatility. And it's not just for tech-heads; it's easy to learn programming has made the Arduino® a hit with artists and educators as well. Jaycar is proud to add the duinotech to our line-up. Providing every feature of the Arduino® UNO and the Freetronics-Eleven, now at an even lower price! Join the Arduino® revolution today!

- Fully Arduino® UNO Compatible
- ATMega328P Microcontroller
 - Program Memory: 32kB (2kB used by bootloader)
 - EEPROM: 512 bytes, SRAM: 2kB
 - Speed: 16MHz
- ATMega16u2 USB-Serial Chipset
- IO:
 - Digital IO: 14 pins (6 are configurable as Digital or PWM)
 - PWM Capable: 6 pins, Analog Inputs: 6 pins
 - Serial Ports: 1 (more supported via SoftwareSerial library)
- Input voltage:
 - 5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin
 - On-board regulator supplies 5V when unit is powered via Vin pin
- Dimensions: 75(W) x 53(L) x 13(H)mm



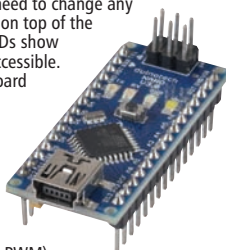
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4410	\$29.95	\$26.95

duinotech Nano

This is the most breadboard friendly Arduino®-Compatible device you will find. Despite its small size, it packs virtually all the features of the full duinotech boards into a tiny DIP-style board that drops directly into your breadboard. It uses exactly the same ATMega328 chip as its larger cousins, so there is no need to change any of your coding. A Mini-B-USB port is easily accessible on top of the board for programming and serial communication. LEDs show power and serial status and a reset button is easily accessible. Its small DIP-style makes it easy to embed into Veroboard or custom PCBs for more advanced projects.

- Fully Arduino® and duinotech Compatible
- ATMega328P Microcontroller
 - Program Memory: 32kB(2kB used by bootloader)
 - EEPROM: 512 bytes, SRAM:2kB, Speed: 16MHz
- FT232RL USB-Serial Chipset
- IO:
 - Digital IO: 14 pins (6 are configurable as Digital or PWM)
 - PWM Capable: 6 pins, Analog Inputs: 6 pins
 - Serial Ports: 1 (more supported via SoftwareSerial library)
- Input voltage:
 - 5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin
 - On-board regulator supplies 5V when unit is powered via Vin pin
- USB cable included
- Dimensions: 46(L) x 18(W) x 18(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4414	\$29.95	\$26.95

Arduino Compatible duinotech Lilypad Board

A compact ATMega 32U4 based main board designed with portability in mind. Just like the Leonardo, a single chip handles main controller functions as well as USB connectivity, so the Lilypad can also act as a USB mouse or keyboard. Another big difference is that the Lilypad is a 3.3V board, and so all its inputs and outputs are limited to 3.3V, although it can run off 5V from the USB port.

- Program Memory: 32kB
- SRAM: 2.5kB
- EEPROM: 1kB
- Processor Frequency: 8MHz
- 9 Digital IO pins, 4 which can work as PWM and 4 which can work as analog inputs
- On-Off Switch
- LiPo Battery Charging connector and Circuitry
- Dimensions: Dia.: 51mm - Depth: 6mm



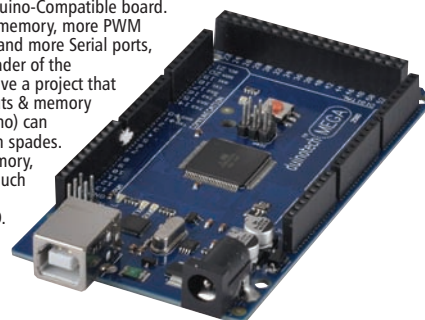
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4620	\$29.95	\$26.95	\$23.95

duinotech Mega

This is our most powerful Arduino-Compatible board. Boasting more IO pins, more memory, more PWM outputs, more Analog inputs and more Serial ports, the MEGA is definitely the Leader of the duinotech pack. When you have a project that just needs more inputs, outputs & memory than the duinotech Classic (Uno) can deliver, the MEGA has them in spades. And with 8x the program memory, you have the room to write much larger programs to take full advantage of the increased IO. Despite its elongated size, standard shields will still drop straight onto this board.

- Fully Arduino® Compatible
- ATMega2560 Microcontroller
 - Program Memory: 256kB (4kB used by bootloader)
 - EEPROM: 4kB, SRAM 8kB, Speed: 16MHz
- ATMega16u2 USB-Serial Chipset
- IO:
 - Digital IO: 54 pins (15 are configurable as Digital or PWM)
 - PWM Capable: 15 pins, Analog Inputs: 16pins
 - Serial Ports: 4 (1 is connected to on-board USB-Serial port)
- Input Voltage:
 - 5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin
 - On-board regulator supplies 5V when unit is powered via Vin pin
- Dimensions: 108(W) x 53(L) x 15(H)mm



duinotech

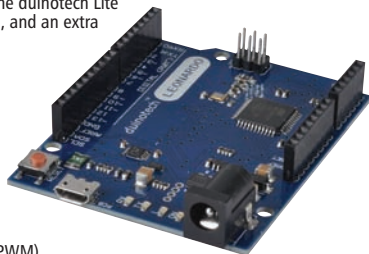
	Cat.	Qty 1+	Qty 5+
	XC-4420	\$49.95	\$44.90

ARDUINO COMPATIBLE BOARDS (CONTINUED)

duinotech Lite (LEONARDO)

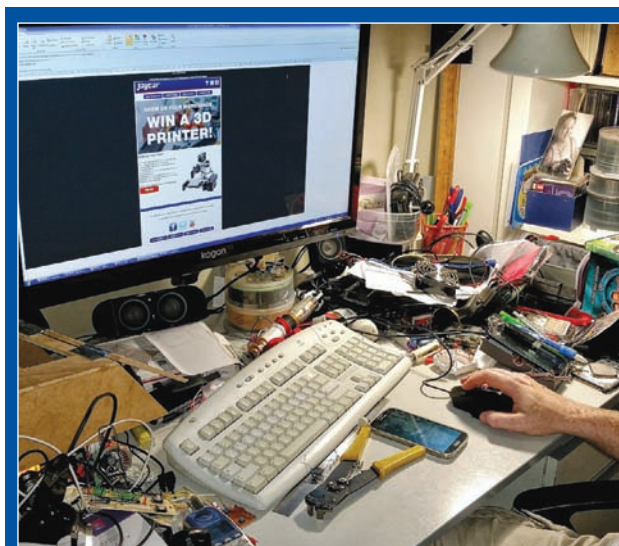
Most of the duinotech models use two chipsets, one for the main controller, one for USB communication. The duinotech Lite combines both these functions into a single IC. This lowers the cost, and opens the door for more advanced USB functions. Now you can have your duinotech Lite emulate a computer keyboard, mouse, joystick and many other types of input device. The duinotech Lite also boasts more analog inputs (12), and an extra PWM channel.

- Fully Arduino® Compatible
- ATmega32u4 Microcontroller
Program Memory: 32kB
(4kB used by bootloader)
EEPROM: 1kB, SRAM: 2.5kB
Speed: 16MHz
- Built in USB-Serial
- IO:
 - Digital IO: 20 pins
(7 are configurable as digital or PWM)
 - PWM Capable: 7 pins
 - Analog Inputs: 12 pins (6 are shared with digital pins)
 - Serial Ports: 2 (One USB, one UART, more supported via SoftwareSerial library)
- Input voltage:
 - 5VDC Regulated via USB port or 5V pin
 - 7-14VDC via Vin pin
 - On-board regulator supplies 5V when unit is powered via Vin pin
- Dimensions: 75(W) x 53(L) x 13(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4430	\$29.95	\$26.95



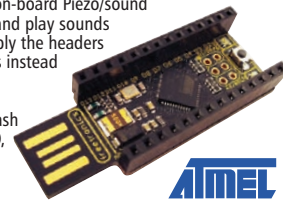
Workbench sent to us by: Graham Jaycar Store: Rydalmere

Welcome to my computer & electronics workspace. I'm in the middle of 2 projects at the moment, it's normally a little tidier.

For more details, visit: www.jaycar.com.au/workbench

LeoStick (Arduino Compatible)

The very popular LeoStick is a tiny Arduino-compatible board that's so small you can plug it straight into your USB port without requiring a cable! Even with its tiny size it has a full range of analogue and digital I/O just like its larger cousins, and also has a user-controllable RGB LED on the board and an on-board Piezo/sound generator so you can make your board light up and play sounds without any extra hardware at all! We don't supply the headers pre-soldered in case you wish to use header pins instead (available separately).



AMEL

For LeoStick Prototyping Shield see page 85

freetrionics

- ATmega32u4 MCU with 2.5k RAM and 32k Flash
- 6 analogue inputs (10-bit ADC) with digital I/O, 14 extra digital I/O pins
- Includes a getting started guide and header sockets for plug-in modules and projects.
- Compatible with the Arduino IDE
- User-controlled RGB LED
- Built in Piezo sound speaker
- Dimensions: 49(W) x 19(H) x 8(D)mm (11mm including header sockets)

	Cat.	Qty 1+	Qty 3+
	XC-4266	\$47.95	\$43.15

StepDuino Arduino Compatible

A complete, self-contained Arduino-compatible board with onboard stepper motor drivers, servo interface, microSD card slot, and 20x4 character LCD. Perfect for building robots or other mechatronics projects: just connect up stepper motors and go! Even includes an interface for a commonly available Nintendo DS touch screen (not included) that can be fixed over the LCD or mounted beside it.

AMEL



freetrionics

- ATmega328P MCU running the Arduino bootloader
- ATmega16u2 MCU for USB-serial connection
- 2 x stepper motor controllers suitable for 4-wire bipolar steppers
- 2 x servo controller outputs
- 20x4 LCD
- Breakouts for I²C, UART, and analog / digital pins: perfect for limit switch connections or additional sensors
- Breakouts for touchscreen connection (not included)
- Micro USB socket for programming - even comes with a micro USB cable included in the box!
- microSD card slot
- Switchmode power supply
- Program it using the Arduino IDE
- Dimensions: 113(W) x 74(H) x 25(D)mm

	Cat.	Qty 1+	Qty 3+
	XC-4249	\$169.00	\$151.95

ATmega328P MCU with Arduino Uno Bootloader

An ATMEAL AVR ATmega328P microcontroller for you to build your very own customised Arduino compatible projects. For your convenience it comes with the Arduino Uno bootloader pre-installed and features a special label on top which details the pinouts.



AMEL

freetrionics

- Includes 16MHz crystal oscillator
- 23 programmable I/O lines
- 6-channel ADC
- 0 - 4MHz @ 1.8 - 5.5V, 0 - 10MHz @ 2.7 - 5.5V, 0 - 20MHz @ 4.5 - 5.5V
- 28-pin DIP format for easy use in breadboards or Arduino compatible boards

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZZ-8726	\$14.95	\$13.45	\$10.45

LEARN MORE WITH THESE FANTASTIC BOOKS:

Arduino Workshop Book - 65 Projects

In Arduino Workshop you will learn to make projects that add-on to your Arduino microcontroller platform. The book is very hands-on, describing 65 projects you can make.

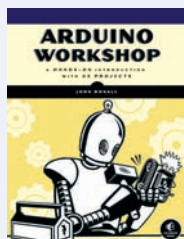
Projects include:

- A digital thermometer
- A GPS logger
- A handy voltage tester
- A keypad combination lock
- A binary quiz game and much, much more

Lavishly illustrated with very clear text and lots of professional tips for the novice constructor.

- 370 pages, 180 x 235 Soft cover

BOOK



	Cat.	Qty 1+
	BM-7137	\$44.95

Arduino Robot Builder's Bonanza

This book guides you through the construction of 7 robots that roll, walk, talk, slither and even sling insults at you. All projects feature the Arduino microcontroller platform. Step-by-step assembly diagrams and instructions provided.

- Soft cover
- 400 pages, 230 x 185mm

BOOK



	Cat.	Qty 1+
	BM-7136	\$49.95

MODULES & SHIELDS - PROGRAMMERS

Arduino Compatible FTDI USB to Serial Module

A mini-USB to 6-pin serial port module used to communicate with Arduino® boards and modules. It uses the original FT232 chip with power/sending/receiving indicator and also a selectable 3.3V and 5V power option to suit different boards.

- 3.3V & 5VDC power switch
- Send & receive indicators
- Supplied with USB cable
- Dimensions: 43(L) x 17(W) x 12(H)mm



duinotech

	Cat.	Qty 1+	Qty 3+
↑	XC-4464	\$19.95	\$17.95

ICSP Programmer for Arduino

Program new applications into a wide range of microcontrollers using this ICSP programmer with a USB interface. Compatible with Arduino boards, ZZ-8726 ATmega328P MCU and fully supported by the Arduino IDE, allowing you to install or update Arduino-compatible boards and your own custom-made projects.

- Compatible with a wide range of microcontrollers, including all Arduino boards
- Compatible with the Arduino IDE on Windows, Mac®, and Linux
- Supplied with a USB cable and ISP programming cable
- Dimensions: 56(L) x 46(W) x 22(H)mm

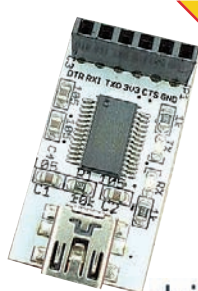


freetrronics

	Cat.	Qty 1+	Qty 3+
↑	XC-4237	\$34.95	\$31.45

FT232 USB to Serial Breakout Board for Arduino

This is a basic breakout board for the FTDI FT232RL USB to serial IC. The pinout of this board matches the FTDI cable to work with 5V Arduino boards. It can also be used for general serial applications. The major feature of this board is that it brings out the DTR pin as opposed to the RTS pin of the FTDI cable. The DTR pin allows an Arduino target to auto-reset when a new Sketch is downloaded. This is a really nice feature to have and allows a sketch to be downloaded without having to hit the reset button.



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	XC-4594	\$34.95	\$31.45	\$27.90

AVR ISP 10 Pin to 6 Pin Adaptor for Arduino

Adaptor from 10pin ISP header to 6 pin ISP header as found on Arduino boards.

- Use with an ISP programmer to update bootloaders or reflash bricked boards
- 10 pin plug to 6 pin socket



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4613	\$4.95	\$4.45	\$3.95

MODULES & SHIELDS - USB

Arduino Compatible USB Host Expansion Board

Brings the ubiquitous USB Host connectivity to your Arduino® project. This shield even supports Google Android® ADK allowing connections to Smartphones and Tablets. The USB port can also be used with a USB hub.

- Supports HID: keyboards, mice, joysticks, etc.
- Supports mass storage devices: USB sticks, memory card readers, external hard drives, etc.
- Dimensions: 55(W) x 54(D) x 23(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
↑	XC-4456	\$39.95	\$35.90

MODULES & SHIELDS - WIRELESS

Arduino Compatible RF Transceiver Module

This module adds a versatile 433MHz radio to your duinotech project. Capable of transmitting and receiving over a wide frequency range, these modules allow two-way wireless communication between duinotechs. Controlled via SPI. Prewritten libraries available.

- Operating Voltage: 1.9-3.6VDC
- Frequency Range 433/898/915MHz
- Maximum Data Rate: 50kbps (with error correction)
- RF output power: 13dBm(20mW)
- Connection protocol: SPI
- Includes antenna.
- Dimensions: 32(W) x 19(L) x 19(H)mm (Excluding antenna)



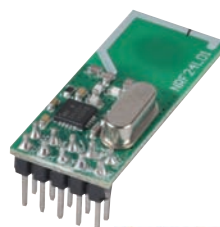
duinotech

	Cat.	Qty 1+	Qty 3+
↑	XC-4522	\$19.95	\$17.95

2.4GHz RF Module

Based on the NRF24L01 transceiver IC, this module allows communication on the license free ISM band. Despite its diminutive size, it supports on-air data rates of up to 2Mbps. No external components are required (other than your Duino®).

- Operating Voltage: 3.3V (5V tolerant logic)
- Output Power: 1mW
- Chipset: NRF24L01
- Ultra low power consumption
- Protocol: SPI
- Dimensions: 33(L) x 14(W) x 9(H)mm



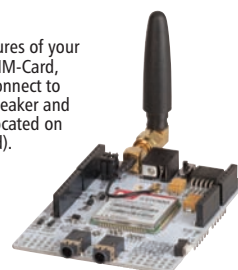
duinotech

	Cat.	Qty 1+	Qty 5+
↑	XC-4508	\$9.95	\$8.75

GPRS/GSM Shield for Arduino

This powerful Arduino shield contains all the features of your average mobile phone. Once you add your own SIM-Card, you can make phone calls, send SMS, and even connect to the Internet! Two 3.5mm audio jacks connect a speaker and microphone for voice calls. A SIM-card holder is located on the underside of the board (SIM-Card not included).

- Quad-Band 850/900/1800/1900MHz
- SIM900 Chipset
- Includes SMA Antenna
- Protocol: AT-Commands via Serial/UART
- Dimensions: 85(W) x 57(D) x 18(H)mm (Excluding Antenna)



duinotech

	Cat.	Qty 1+	Qty 3+
↑	XC-4221	\$149.00	\$133.95



Workbench sent to us by: Terry Jaycar Store: Ipswich

My workspace is used to build then test Arduino robotic projects suitable for school students. I manufacture the plastic parts by hand and have thought of using a 3d Printer to manufacture the gear trains and other small parts. It further serves in experimentation with amateur radio and solar energy projects.

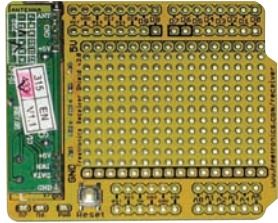
For more details, visit: www.jaycar.com.au/workbench

MODULES & SHIELDS - WIRELESS (CONTINUED)

433MHz Receiver Shield for Arduino

Add a receiver module to your Arduino project to receive signals from wireless devices including weather stations, home automation remote controls, power consumption meters, car alarms, and also many DIY projects that transmit on 433MHz. Supplied with RXB6 433MHz receiver module. Described in Practical Arduino Book BM-7132

- Fully pre-assembled except for headers
- Includes stackable headers that you can solder in place
- Red and green debugging LEDs to display signal reception status
- Red and green SMD LEDs with current limiting resistors
- Reset button wired through to Arduino reset pin
- Blue power LED
- Power supply smoothing capacitors
- Huge prototyping area where you can add your own parts
- Clearly marked GND and 5V rails
- Printed PCB overlay on both sides
- Gold-plated surface for easy soldering
- Dimensions: 60(L) x 54(W) x 9(D)mm



freetronics

	Cat.	Qty 1+
↑	XC-4220	\$34.95

MODULES & SHIELDS - WI-FI

Wi-Fi/Ethernet Shield with Airplay/DLNA Audio for Arduino

A versatile shield that has both ethernet and Wi-Fi to give wired or wireless capability for audio streaming. Your Arduino board becomes a client that accepts music being pushed over Airplay for iOS devices or DLNA compatible devices including Android. There is also a USB host which can be used as power source or a webcam slot with future firmware update.

- Audio Output: three segment audio jack
- Includes Shield, Wi-Fi module & Antenna cable



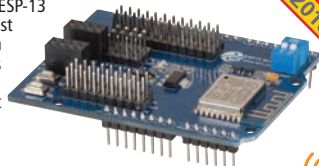
Wi Fi Enabled

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4548	\$159.00	\$142.95	\$126.95

Arduino Compatible ESP-13 Wi-Fi Shield

Using the powerful ESP8266 IC, the ESP-13 Wi-Fi Shield adds much more than just plain Wi-Fi to your Arduino. It has an 80MHz processor and can also act as an access point or web server. An excellent way to get into the Internet of Things (IoT).



Wi Fi Enabled

duinotech

- Integrated TCP/IP stack
- Simple AT command interface with Arduino main board
- Can be programmed directly with Arduino IDE (separate programmer needed)
- Web configuration interface
- Switches on shield to disconnect from Arduino
- Dimensions: 68 x 52 x 12mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4614	\$19.95	\$17.95	\$15.95

BUILD YOUR OWN LED TESTER WITH ARDUINO®

A handy little tool that can help you out if you work with LEDs, especially if you are always trying to work out the right resistor to make them work. The idea has been inspired by Dave Cook's model at <http://robotroom.com/LED-Tester-Pro-1.html>. We have written the code from scratch to suit the parts we have available in the duinotech range.

Features include:

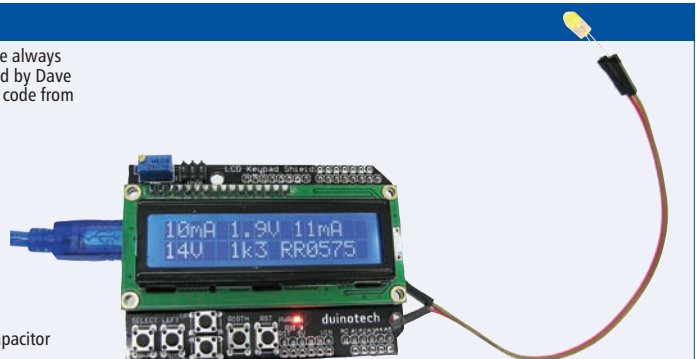
- Adjustable test current
- Displays LED Forward Operating voltage
- Calculates ideal resistor & gives cat. number for a design voltage and current
- Only 3 discrete components to be soldered
- Detachable shields - pull it apart & use for other projects

Shopping list:

XC-4410 duinotech Uno Board
XC-4454 LCD and Pushbutton Shield
RR-0524 10R 1/2W resistor

XC-4482 Prototyping Shield
RR-0538 39R 1/2W resistor
RE-6194 470uF 16V electrolytic capacitor

Step-by-step project instructions and code visit www.jaycar.com.au/diy-arduino-led-tester



MODULES & SHIELDS - BLUETOOTH®

Shield with Bluetooth 4.0 BLE Technology for Arduino

Brings the latest Bluetooth 4.0 BLE (Bluetooth Low Energy) to Arduino. The peak energy consumption is just half of the traditional Bluetooth devices. A single button battery (such as 3V 220mAh CR2032) on a Bluetooth 4.0 single mode chip could work for months or years. Start-up time is only a few milliseconds compared to about 4 seconds on the Bluetooth 2.1.



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4549	\$59.95	\$53.95	\$47.90

Arduino Compatible Bluetooth® Module

Do you want to communicate wirelessly with your duinotech project, but don't want the hassle of configuring RF modules? Well this module with Bluetooth® technology is the answer. Connected to your duinotech via the serial pins, and to your computer via Bluetooth®; this module creates a seamless serial-port link between you and your Duino®. Better still, you can use it to communicate with your Bluetooth® enabled Smartphone.



duinotech

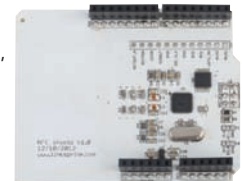
- Chipset: BC417
- Protocol: Bluetooth® V2
- Operating Voltage: 3.3V
- RF Power: 6dBm
- Dimensions: 28(W) x 13(L) x 8(H)mm

	Cat.	Qty 1+	Qty 5+
↑	XC-4510	\$19.95	\$17.95

MODULES & SHIELDS - NFC

NFC Shield for Arduino

Brings Near Field Communication technology to your Arduino project. Similar to RFID, NFC allows reading of cards, tags and Smart Posters when they come in close contact. The technology has many applications including quick Bluetooth pairing, attendance recording, authentication or even Smart Cashless purchases. Comes with both the NFC shield and also a rewritable tag.



duinotech

- Operating Voltage: 5V
- Interface: SPI
- Supported Card: Mifare One
- Maximum Communication Distance: 29mm
- Dimensions: 69(L) x 56(W) x 18(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4542	\$79.95	\$71.95	\$63.95

MODULES DEFINED

The many modules available in our range give you easy connections with online guides for interactive sensors, actuators, displays, light and sound.



MODULES & SHIELDS - ETHERNET

Arduino® Compatible Ethernet Shield

A network shield that will allow the user to set their Arduino® up as web server, control your project over your network or even allow your Arduino® to connect to the World Wide Web.

- 10/100Mb Ethernet port
- Reset button
- microSD card slot
- Stackable headers
- Dimensions: 69(L) x 48(W) x 14(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4412	\$39.95	\$35.90

Arduino Compatible Ethernet Interface Module

Contains all the circuitry required to implement a complete Ethernet interface. Use this with your latest duinotech project to send and receive email or host its own website!

- Operating Voltage: 3.3V
- Ethernet Mode: 10Base-T
- Connection Protocol: SPI
- Dimensions: 160(L) x 60(D) x 15(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4436	\$14.95	\$13.45

WHAT DOES "EMBEDDED SYSTEM" MEAN?

These days you hardly get through a few pages of microprocessor technology magazines without the term "embedded" or "embedded architecture" being mentioned in relation to some article or other.



There seems to be a universal assumption that everyone knows what is meant by the term "embedded."

Well, for those who were too frightened to ask, here is an explanation:

An embedded system is a dedicated circuit, generally centred around a microprocessor (or micro controller) which has a software program stored in dedicated on-board memory or in the memory of the microprocessor itself that has a SPECIFIC computational purpose. A calculator, is, for example an embedded system. It is specifically made to perform a particular task. A mobile phone is another example of an embedded system. A controller for a washing machine or a microwave oven is an example of an embedded system also. In other words, the application is specifically embedded in the system architecture. Typically a personal computer has a "general purpose" application.

Both personal computers and embedded systems are programmed by high level languages, but nowadays the programming language in a PC is less obvious as the PC generally powers up to an application's menu automatically. The embedded system, on the other hand requires you to program the device directly through a programming language like 'C' etc.

Interestingly, Smartphone which can still be regarded as an embedded system are looking more and more like PCs every day. Maybe the definitions will need to be redefined in future.

MAKE YOUR OWN ETHERNET IO CONTROLLER WITH ARDUINO®

This clever project uses our XC-4412 ethernet shield to connect your Arduino to a wired network so you can access it across the Internet. See and change the current state of the IO pins, so you can turn devices on and off remotely across the Internet. Use it to turn on the lights in another room (relay module required), see if someone has left the fridge door open (analog light or temperature sensor required), see if it's raining outside (rain sensor module required).

Shopping List:

- 1 x XC-4410 duinotech Uno Board
- 1 x XC-4412 Ethernet Shield

You may need some of the following items:

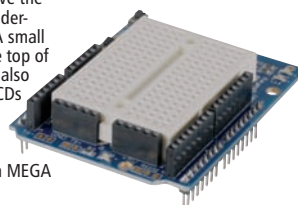
- XC-4428 RGB LED module- an easy way to test if the digital outputs are working
- XC-4538 Analog Temperature Sensor Module- to test analog inputs
- YN-8205 10m Ethernet cable- to connect to your router

Step-by-step project instructions and code visit www.jaycar.com.au/diy-ethernet-controller

MODULES & SHIELDS - PROTOTYPING

Arduino/duinotech Prototyping Shield

Drop this shield onto your Arduino and you have the perfect space for prototyping small circuits. Solder-pads are provided for all of the Arduino pins. A small breadboard is included and can be stuck to the top of the shield with the included tape. Headers are also included to connect common 1602-type text LCDs or a Nokia®5110-type graphical LCD.



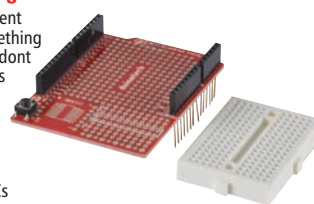
duinotech

- Fully compatible with Arduino, duinotech LEONARDO, duinotech Classic and duinotech MEGA
- Solder less breadboard included
- LEDs for power and D13 status
- Dimensions: 68(L) x 53(W) x 12(H)mm

↑	Cat.	Qty 1+	Qty 3+
	XC-4480	\$8.95	\$8.05

Arduino Compatible Prototyping Shield

This stackable shield makes semi-permanent prototyping simple. When you want something more permanent than a breadboard, but don't want to make your own PCB, this shield is the answer. Provides solder-pad access to all of the Arduino's pins, and a large area of isolated pads.



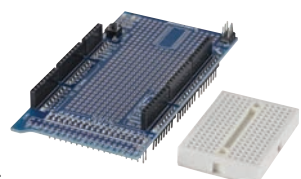
duinotech

- Includes reset button.
- SOIC-14 breakout, for surface mount ICs
- Dimensions: 68(L) x 53(W) x 10(H)mm

↑	Cat.	Qty 1+	Qty 3+
	XC-4482	\$15.95	\$14.35

Prototyping Shield for duinotech - MEGA

This shield gives you plenty of room to prototype your latest MEGA project. The stackable shield provides access to all of the MEGAs pins and plenty of solder pads to prototype on. A small solder-less breadboard is included for fast prototyping.



duinotech

- Dimensions: 106(W) x 56(L) x 19(H)mm

↑	Cat.	Qty 1+	Qty 5+
	XC-4416	\$12.95	\$11.35

RS-232 Shield for Arduino

This shield allows you to connect a legacy device (or computer) to your existing Arduino board. Providing a full RS-232 port, this shield allows you to directly communicate with a huge variety of serial peripherals. You can use the default hardware Serial on pins 0 & 1, or use the software-Serial library on pins 2-7.



duinotech

- MAX232 Chipset
- DB9 Female Socket
- RS-232 Voltage compliant
- Dimensions: 65(L) x 54(W) x 16(H)mm

↑	Cat.	Qty 1+	Qty 3+
	XC-4227	\$34.95	\$31.45



MODULES & SHIELDS - PROTOTYPING (CONTINUED)

RS485 Shield for Arduino

RS485 is a standard communication port for field bus. Arduino only has a USB port and a TTL UART interface. In order to talk to a device that has RS485 bus, we can add a RS485 port to Arduino using this handy RS485 shield.

- Use this handy Arduino RS485 shield to add an RS485 port to your Arduino
- Comes fully assembled with shield stacking headers



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4554	\$34.95	\$31.45	\$27.90

Screw Shield for Arduino

The ScrewShield extends all pins of the Arduino out to 3.5mm pitch screw terminals. The screw terminal blocks allows sturdy, secure and dependable prototyping without the need for soldering.

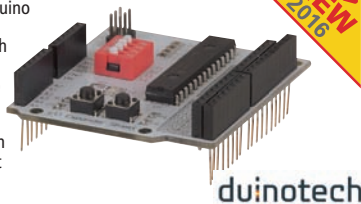


duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4553	\$29.95	\$26.95	\$23.95

I/O Expander for Arduino/pcDuino

Expand the number of I/Os of an Arduino board. It is based on the chipset MCP23017 which communicates with Arduino through an I2C interface. It adds GPIOA and GPIOB, a total of 16 I/Os. There are two LEDs and two buttons on the shield. User can decide if they want to use the built-in LED/buttons or not by using the 4-bit DIP switch.



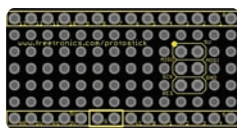
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4547	\$29.95	\$26.90	\$23.70

LeoStick Prototyping Shield

Add your own custom parts to the LeoStick to build projects or add more I/O connectors. Fits on the top of the LeoStick and provides you a free matrix of plated-through holes for your own use.

- 64 general-purpose plated holes for your parts
- All Arduino I/O headers brought up for your use
- Includes male header pins
- Gold-plated surface
- Dimensions: 36(L) x 19(W) x 2(D)mm

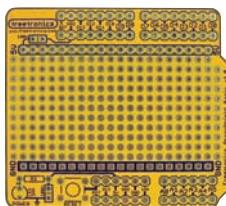


freetronics

	Cat.	Qty 1+	Qty 5+
↑	XC-4268	\$9.95	\$8.75

ProtoShield Basic for Arduino

Breadboards are handy for quickly prototyping Arduino projects on the workbench but they are no good for making a more permanent project. The ProtoShield Basic is a low-cost Arduino prototyping shield that enables you to make more durable or permanent projects. It fits directly onto an Arduino compatible board such as the Fretronics Eleven and has a large general-purpose area in the middle where you can solder on your own parts. They're designed to be so cheap that you can keep a few around your workshop just in case you get the urge to build something. The PCB surface is gold-plated for maximum durability and it has connection markings on both the top and the bottom for easy identification.



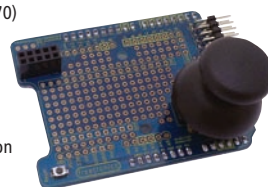
freetronics

- Gold plated, top & bottom overlay
- Mounting pads for reset button wired through to Arduino reset line
- Mounting pads for power on LED and current-limiting resistor
- Mounting pads for power supply capacitors
- Clearly marked GND and 5V rails beside prototyping area
- Dimensions: 59(L) x 53(W)mm

	Cat.	Qty 1+	Qty 5+
↑	XC-4214	\$4.95	\$4.45

OLED Shield for Arduino

Connect the 128x128 pixel OLED module (XC-4270) to your Arduino using this handy shield, which also provides joystick input and a Piezo module for sound output. Display menus on the screen, use the joystick for selection, and give audible feedback. OLED module sold separately.



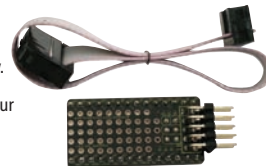
- Easily mount the 128x128 pixel OLED module on an Arduino
- Analogue joystick with push-to-click, great for games or on-screen menus
- Piezo module for sound feedback
- Mount the OLED module directly on the shield or independently using the supplied cable
- Large prototyping area to add your own parts
- Dimensions: 75(W) x 54(H) x 46(D)mm

freetronics

	Cat.	Qty 1+	Qty 5+
↑	XC-4269	\$33.95	\$29.45

OLED Stick for Arduino

Use the OLED Stick to combine the tiny LeoStick Arduino-compatible board (XC-4266) with the 128x128 pixel OLED module (XC-4270) to create your own project with an amazing graphic display.



- Connects the 128x128 pixel OLED module to your LeoStick using the supplied cable
- Prototyping area to add your own parts
- Breakouts for all LeoStick I/O pins
- Dimensions: 45(W) x 19(H) x 16(D)mm

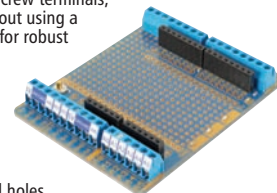
freetronics

Note: OLED module and LeoStick sold separately

	Cat.	Qty 1+	Qty 5+
↑	XC-4245	\$15.95	\$14.35

Terminal Shield for Arduino

Breaks out all the Arduino headers to handy screw terminals, making it easy to connect external wires without using a soldering iron. Ideal for quick experiments or for robust connections! Supplied with all the supporting components already fitted as surface-mount parts so you can start using it right away, as well as stackable headers to allow you to mount another shield on top.



- Gold-plated surface for easy soldering
- Large prototyping area with through-plated holes
- Clearly marked GND and 5V rails beside prototyping area
- Blue surface-mount "power on" LED
- Power supply smoothing capacitors
- Reset button wired through to the Arduino so you can reset it even with the shield mounted over the top.
- 3 general-purpose surface-mount LEDs (red, green, blue) with current limiting resistors pre-fitted
- Dimensions: 79(L) x 61(W) x 2(D)mm

freetronics

	Cat.	Qty 1+	Qty 3+
↑	XC-4224	\$24.95	\$22.45

Workbench sent to us by: Brad Jaycar Store: Underwood

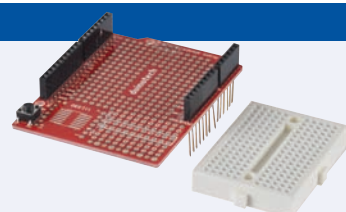
Nerd Perks at use in modifying an ATX to 12V power supply for Li-Po battery charger for my quad.

For more details, visit:
www.jaycar.com.au/workbench



SHIELDS DEFINED

Shields are expansion boards that plug in on top of your Arduino-compatible board to extend its capabilities. Options include displays and keypads, radio link receivers, communications, motor and relay drivers, and much more.



MODULES & SHIELDS - PROTOTYPING (CONTINUED)

Sim Card Breakout Board for Arduino

This is a full 8-pin breakout for the SIM socket allowing direct access to SIM communication. Features a Lock and Open switch.



NEW
2016

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	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	XC-4596	\$19.95	\$17.70	\$15.70

Proto Shield Kit for Arduino

Build your own Arduino shield using the compact and flexible Proto Shield kit. Solder together a limitless range of circuits and reuse it in all your Arduino projects. A standard 0.1" prototyping grid accepts commonly used through-hole parts and chips. You could also find a range of basic components are included to help you get started with your custom shield.

Contents:

- 1 x Arduino compatible Proto Board
- 1 x B type USB connector
- 1 x 40-pin 2.54mm male long header
- 1 x 40-pin 2.54mm female header
- 2 x 40-pin 2.54mm male header
- 1 x 40-pin 2.54mm spacer
- 3 x 8-pin 2.54mm female header
- 1 x 6-pin 2.54mm female header
- 1 x ISP female pin header
- 1 x ISP male pin header
- 1 x 10k Ohm rotary potentiometer
- 4 x 1k Ohm through-hole resistor
- 2 x 10k Ohm through-hole resistor
- 2 x 3mm Red through-hole LED
- 2 x 3mm Green through-hole LED
- 1 x 3mm dual colour through-hole LED
- 4 x Mini push button switch
- 2 x DPDT switch



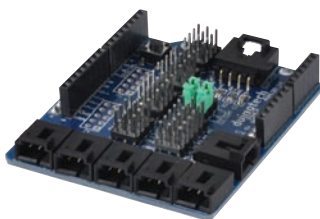
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4555	\$19.95	\$17.70	\$15.70

Arduino Compatible Sensor Expansion Shield

This shield makes connecting 3-pin analog sensors a snap. Each of the 5 x analog inputs is broken out to individual 3-pin connectors. There is also a 4-pin communications port that can be set for either UART or I²C. Each of the digital pins is also given a 3-pin vertical header. Plug and Play connection for servos, sensors, switches and more!

- Dimensions: 68(W) x 57(D) x 18(H)mm



duinotech

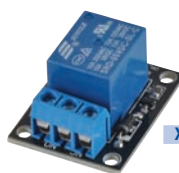
	Cat.	Qty 1+	Qty 3+
↑	XC-4452	\$10.95	\$9.85

MODULES & SHIELDS - RELAYS

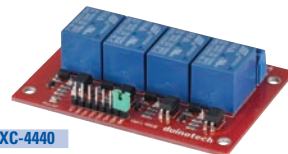
Arduino® Compatible Relay Boards

These handy relay modules provide the easiest way to use your duinotech to switch real world devices. Available in one, four and eight channel versions, these modules can switch up to 10A per channel. Includes back-EMF protection and LEDs so you can easily see the state of the outputs. The four and eight channel versions even have optical isolation to protect your duinotech. While the one channel version operates directly from 5V.

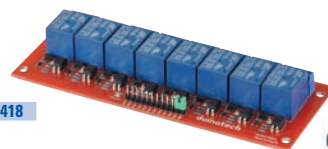
- Status LEDs show channel status
- Active High logic
- Screw terminals for easy connection to relay contact.
- SPDT Relays
- Current Ratings: 10A @ 250VAC, 10A @ 30VDC
- Four mounting holes on each module



XC-4419



XC-4440



XC-4418

duinotech

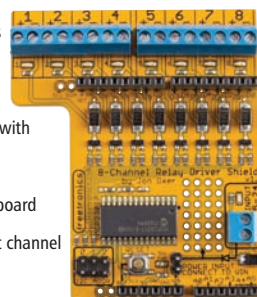
Cat.	Channels	Supply Voltage	Optical Isolation	Dimensions
XC-4419	1	5VDC	NO	40(W) x 27(D) x 18(H)mm
XC-4440	4	5VDC	YES	77(W) x 55(D) x 17(H)mm
XC-4418	8	12VDC	YES	135(W) x 50(D) x 19(H)mm

↑	Channels	Cat.	Qty 1+	Qty 5+
	1	XC-4419	\$4.95	\$4.45
	4	XC-4440	\$12.95	\$11.35
	8	XC-4418	\$19.95	\$17.95

8 Channel Relay Driver Shield for Arduino

Drive up to 8 relays from your Arduino using just 2 I/O pins with this shield. It communicates with your board using I²C, so you can even stack several shields together to drive 16, 24, or more outputs! Includes back-EMF protection and works with a wide range of relays. Perfect for home automation projects when combined with relay SY-4052 and DIN-rail relay mounting base SY-4063.

- Plugs straight into your Arduino-compatible board
- Just 2 I/O pins required to control 8 outputs
- Individual LED status display on every output channel
- LED status displays for host power and external power
- Drive relay coils of 5V to 24V (with external power supply)
- Suggested relays like SY-4052 are rated at 2 x 5A @ 240VAC
- Dimensions: 52(L) x 66(W) x 12(D)mm



freetronics

	Cat.	Qty 1+	Qty 3+
↑	XC-4276	\$44.95	\$40.45

LEARN MORE WITH THIS FANTASTIC BOOK:

C Programming for Microcontrollers

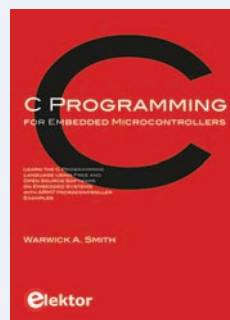
Never used C before? Well if you've used Arduino, you've used C. The language the Arduino uses is just a slightly modified version of C. Becoming fluent in C programming is key to developing robust and reliable Arduino projects. What's more, pure C can be used to program almost all other microcontrollers too, not to mention your computer. This book starts right from the basics, writing simple programs to run on your pc. And eventually moves on to writing code for microcontrollers. While this book focuses on Atmel's ARM microcontrollers, the skills are equally valid when programming any architecture. Ideal for electronic hobbyists, students and engineers wanting to learn to program C.

- Uses only free or open source software
- Learn how to download, set up and use free C programming tools
- No programming experience is necessary
- Learn by doing - type and run the example programs and exercises
- Sample programs and exercises can be downloaded from the Internet
- A fun way to learn the C programming language
- Soft cover, 320 pages. 234 x 170 x 17mm

This is one of the most lucid,
best written technical books
we have ever seen!



BOOK



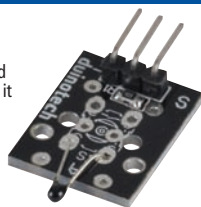
	Cat.	Qty 1+
↑	BT-1384	\$69.95

MODULES & SHIELDS - TEMPERATURE & ENVIRONMENT

Analog Temperature Sensor Module

This module uses a 10k resistor in the series with a thermistor to give an analog voltage divider output and the small size of the sensor on this module means that it responds to temperature changes quickly.

- Operates on 3.3V or 5V
- Fast response to temperature changes
- Dimensions: 20(W) x 15(L) x 5(H)mm



duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4538	\$19.95	\$17.95

Arduino Compatible Temperature Sensor Module

This module provides a simple way to measure temperature. The module outputs an analog voltage that varies directly with temperature. Connect it straight to one of your duinotech analog inputs.

- Operating voltage: 5VDC
- 210mm breakout cable included
- Dimensions: 33(W) x 22(D) x 9(H)mm



duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4494	\$5.95	\$5.35

IR Temperature Sensor Module for Arduino

Remote temperature sensing for your Arduino! Connect this to your board and point it at a surface or heat source to remotely measure its temperature. This is our special version of the industrial infrared remote thermometer units with an onboard power supply, communication support and a software library and examples supplied.

- 3.3 to 5V operation
- -33 to +220°C measurement range, 1 second response time
- Free software library and examples
- On-board power supply and communications interface
- Dimensions: 38(W) x 14(H) x 12(D)mm



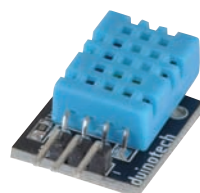
fretronics

	Cat.	Qty 1+	Qty 3+
	XC-4260	\$44.95	\$40.45

DHT11 Digital Temperature & Humidity Sensor

Measure both temperature and humidity with this nifty module. Full digital operation so no analog to digital calibration is required. Faster than XC-4432, but less accurate and with a smaller temperature range. Use when expecting rapid changes in temperature.

- Arduino™ library available.
- Protocol: 1-Wire (Not Dallas 1-Wire, one data pin is required per sensor used)
- Operating Voltage: 3-5 VDC
- Temperature Range: 0 °C - 50 °C +/- 2 °C
- Humidity Range: 20 - 80% +/- 5%
- Sample Rate: 1Hz
- Dimensions: 52(W) x 20(L) x 13(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4520	\$9.95	\$8.75

Humidity & Temperature Sensor Module for Arduino

Measure temperature and relative humidity using a simple interface that requires just three wires to the sensor: GND, power, and data. Supported by an Arduino library that makes it very easy to read values into your project, so with a single I/O line from your microcontroller you can read both temperature and humidity.

- -4°C to +125°C temperature range with +/-0.5°C accuracy
- 0-100% relative humidity with 2-5% accuracy
- 0.5Hz sample rate (one sample every 2 seconds)
- 3 to 5V operation
- Power consumption just 4.3mA during reads, even less when idle
- Blue power LED
- Dimensions: 31(W) x 23(H) x 4(D)mm



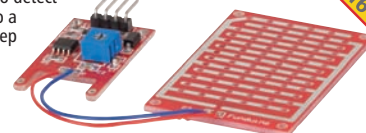
fretronics

	Cat.	Qty 1+	Qty 3+
	XC-4246	\$29.95	\$26.95

Arduino Compatible Rain Sensor Module

Add another dimension to your Arduino weather project. This compact module can be used to detect rain, and can be separated into a sensor and control board to keep the important bits dry.

- 5V supply needed.
- Adjustable sensitivity
- LED indicator
- TTL level output can drive 100mA, enough for a small relay or buzzer
- Sensor: 50 x 35 x 1mm - Control: 47 x 26 x 6mm - Wire Length: 75mm



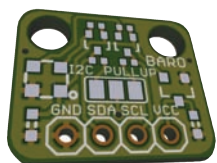
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4603	\$9.95	\$8.95	\$7.95

Barometric Pressure Sensor Module for Arduino

Highly sensitive barometric pressure sensor for weather, industrial, rocketry, balloon, and many pressure applications. Designed specifically for use as a microaltimeter so it has incredible resolution: so sensitive it can detect an altitude change of just 130mm!

- Operating pressure range 10 to 2000mBar
- I²C interface for easy Arduino connection
- 3.3V / 5V operation
- Dimensions: 15(W) x 13(H) x 5(D)mm



fretronics

	Cat.	Qty 1+	Qty 5+
	XC-4255	\$33.95	\$29.45

MQ2 Gas and Smoke Sensor Module for Arduino

Detects the concentration of flammable gas and smoke in the air and outputs its reading as an analog voltage. The sensor can measure concentrations of flammable gas of 300 to 10,000 ppm. With fast response and adjustable sensitivity, it is useful in quick detection of leaking gas including LPG, I-butane, methane, alcohol, hydrogen and smoke.

- Operation Voltage: 5V
- Operation Temperature: -20 to +50°C



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4543	\$19.95	\$17.70	\$15.70

MAKE YOUR OWN TELESCOPE DEW HEATER WITH ARDUINO®

This project brings together a few duinotech modules and some other parts to create a versatile tool. Inspired by the dew Heaters used on telescopes, it senses ambient temperature and humidity to control a small heater. Not just for telescopes, but anything that needs to avoid condensation.

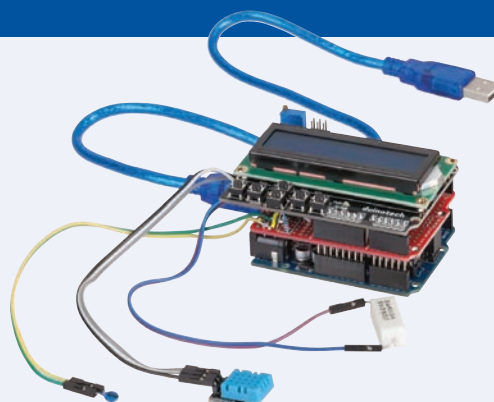
Features include:

- Programmable temperature set point
- Temperature target can be set above ambient or dewpoint
- Settings can be saved to EEPROM
- Adjustable failsafe heater output to use if sensors are faulty
- Comprehensive LCD info screen

Shopping list:

- XC-4520 Temperature and Humidity Module
- XC-4410 duinotech Uno Board
- RR-0596 10k resistors
- ZT-2468 MOSFET (or even a XC-4488 MOSFET module)
- WC-6028 Plug-socket leads
- XC-4454 LCD and Button Shield
- RN-3440 10k Thermistor
- RR-0572 1k resistors
- XC-4482 Proto Shield
- RR-3264 5W 390hm Resistor

Step-by-step project instructions and code visit www.jaycar.com.au/diy-telescope-dew-heater

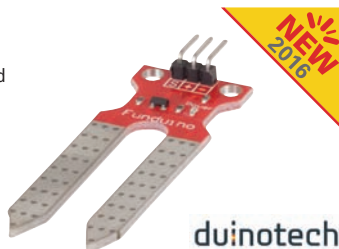


MODULES & SHIELDS - TEMPERATURE & ENVIRONMENT (CONT)

Arduino Compatible Soil Moisture Sensor Module

Automate your garden with Arduino and use the Soil Moisture Sensor Module to detect when your plants need watering.

- Analog output
- Works on 3.3V or 5V
- Current less than 20mA
- Dimensions: 62 x 20 x 7mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4604	\$4.95	\$4.45	\$3.95

Arduino Compatible Photosensitive LDR Module

Measure light levels with this sensor module. This module uses a light dependant resistor to produce an output voltage that varies with light level. Connect it straight into your duinotech or other Arduino compatible board to build a night/day sensor, a sun tracker or combine it with our laser module XC-4490 to make a laser trip wire.

- Operating voltage: 3-5VDC
- Includes breakout cable
- Dimensions: 29(W) x 22(D) x 10(H)mm



	Cat.	Qty 1+	Qty 3+
↑	XC-4446	\$5.95	\$5.35

Arduino Compatible Ultraviolet Sensor Module

This module will measure the UV light and adjust the output voltage depending on the UV intensity. Capable of measuring over a wide spectral range of 200nm-370nm, this module is a valuable addition for weather station projects or in any place which require stable and accurate measurement of UV light.

- Working Voltage 3-5V DC
- Output voltage 0-1200mV
- Current 0.06-0.1mA
- Response wavelength 200-370nm
- Working temperature: -20 to 85°C
- Dimensions: 43(L) x 13(W) x 8(H)mm

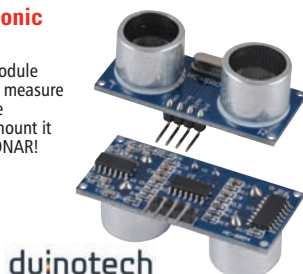


	Cat.	Qty 1+	Qty 3+
↑	XC-4518	\$37.95	\$34.15

Arduino Compatible Dual Ultrasonic Sensor Module

The popular HC-SR04 ultrasonic distance module provides an easy way for your duinotech to measure distances up to 4.5m. Use it to add obstacle avoidance to your next robotics project or mount it on a servo to create your own ultrasonic SONAR!

- Uses just two digital pins
- Operating Voltage: 5V
- Sensor Angle: <15°
- Detection Distance: 20mm - 4.5m
- Dimensions: 45(W) x 20(D) x 13(H)mm



	Cat.	Qty 1+	Qty 5+
↑	XC-4442	\$7.95	\$7.15



Workbench sent to us by: John Jaycar Store: Penrith

One photo just doesn't cut it - but this is my work bench. I do all my designs, soldering work and testing here. I also have loads of little storage boxes that have all my components in.

For more details, visit: www.jaycar.com.au/workbench

MODULES & SHIELDS - IR

Arduino Compatible Infrared Obstacle Avoidance Sensor Module

This module is an inexpensive solution for an obstacle avoidance sensor, perfect for robotic projects and very easy to interface directly with Arduino® and compatible boards. It also works with our pcDuino module by using the 3.3V output. The module has two potentiometers one to control frequency and the other to control the intensity.

- 5VDC operation
- Adjustable frequency and intensity
- 4 pin header
- Dimensions: 42(L) x 27(W) x 18(H)mm

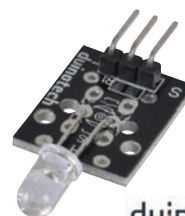


	Cat.	Qty 1+	Qty 5+
↑	XC-4524	\$9.95	\$8.75

Arduino Compatible Infrared TX Module

Use this device to send data over infrared. Use your Arduino to control your TV or Media Centre. Combine it with our RX module (XC-4427) and you have simple wireless communication. You could also use it to control one of our infrared RC helicopters!

- Operating Voltage: 5VDC



	Cat.	Qty 1+	Qty 3+
↑	XC-4426	\$4.95	\$4.45

Arduino Compatible Infrared RX Module

Receive data sent via infrared, this module can read the signals sent by most IR remote controls. Pair it with the TX Module (XC-4426) to make a universal remote control.

- Operating Voltage: 5VDC



	Cat.	Qty 1+	Qty 5+
↑	XC-4427	\$3.95	\$3.45

Arduino Compatible PIR Motion Detector Module

A pyroelectric infrared PIR motion sensor is a handy addition to any Arduino® project. Wide operating range and delay times changeable via two potentiometers giving this module versatility to the user, it is a must for any security application.

- Working voltage: 5-20VDC
- Quiescent current: 65uA
- Level output voltage: High 3V / Low 0V
- Delaying time 0.3-18s
- Dimensions: 32(L) x 24(W) x 25(H)mm

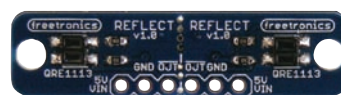


	Cat.	Qty 1+	Qty 5+
↑	XC-4444	\$5.95	\$5.50

Dual Channel Infrared Reflectance Sensor for Arduino

A pair of infrared reflectance sensors mounted on one PCB, spaced just the right distance apart to build a line following robot. Easy interface with Arduino. Symmetrical PCB with snapoff holes across the middle, so you can use it as a pair or cut/snap it in half to have two separate reflectance sensors.

- Analogue output shows light or dark surface detected
- Perfect for line following robots
- Easy interface with Arduino
- Dimensions: 37(W) x 9(H) x 3(D)mm



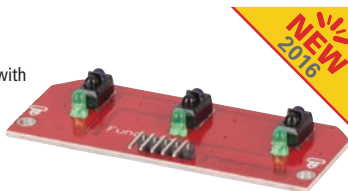
	Cat.	Qty 1+	Qty 5+
↑	XC-4261	\$14.95	\$13.35

MODULES & SHIELDS - LINE TRACING

Arduino Compatible Triple Reflectance Sensor Module

Create a smarter line-following robot with the Triple Infrared Reflectance Sensor Module. The module has three evenly spaced sensors and mounting holes.

- CTRT5000 Sensor IC
- 5V Supply required
- Only 2 pins needed for power and 3 for outputs
- Dimensions: 69 x 32 x 8mm



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4611	\$9.95	\$8.95	\$7.95

Arduino Compatible Line Trace Sensor Module

This module measures the reflectivity of a surface with an infrared emitter/detector pair. The output goes to high whenever the reflectivity exceeds the threshold value, which can be adjusted with the onboard potentiometer.

- Output electrical level signal: Active Low
- VCC/OUT/GND pin connector
- Power Supply: 2.5-12V
- Working current: 18-20mA at 5V



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4474	\$7.95	\$7.15

MODULES & SHIELDS - MAGNETIC

Arduino Compatible Hall Effect Sensor Module

Sense magnetic presence, rotating wheels and magnets, door sensors and any other magnets near this device.

- Output turns on at 30Gauss(3mT) and off at 10Gauss(1mT)
- Operating Voltage: 4.5 - 28VDC
- Schmitt-Trigger output.
- Dimensions: 20(W) x 15(L) x 3(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4434	\$4.95	\$4.45

Magnetic Reed Switch Module

A simple to use reed switch module, output will turn whenever the reed switch is in proximity to a magnetic field. Useful for door security.

- Operating voltage 3-5VDC
- Digital output
- 16mA comparator output capacity
- Dimensions: 37(L) x 15(W) x 23(H)mm



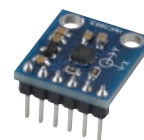
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4476	\$7.95	\$7.15

3 Axis Digital Compass Module

This module allows you to take accurate compass bearings, no matter how it is orientated. Easily interfaced via I²C.

- Operating Voltage: 5VDC
- Resolution: 12bits
- Interface: I²C
- Includes 5V - 3V level shifter.
- Dimensions: 20(L) x 16(H) x 5(H)mm



duinotech

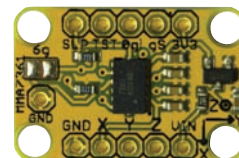
	Cat.	Qty 1+	Qty 5+
	XC-4496	\$9.95	\$8.75

MODULES & SHIELDS - ACCELEROMETER

3-Axis Accelerometer Module for Arduino

This 3-axis accelerometer module can operate in either +/-1.5g or +/-6g ranges, giving your project the ability to tell which way is up. Ideal for robotics projects, tilt sensors, vehicle data loggers, and whatever else you can dream up. Perfectly suited for Arduino projects.

- Independent X, Y, and Z axis outputs
- Can run from either 5V or 3.3V
- Zero-G free-fall detection
- Dimensions: 23(W) x 15(H) x 4(D)mm



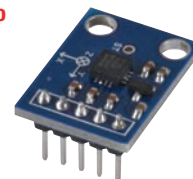
freetrionics

	Cat.	Qty 1+	Qty 5+
	XC-4226	\$22.95	\$20.35

3-Axis Accelerometer Module for Arduino

This module allows you to measure acceleration, detect impacts and determine orientation. Perfect for robotics projects.

- Protocol Analog: (1 Channel per axis)
- Measurement Range: +/-3g
- Operating Voltage: 3.3VDC - 5VDC
- Chipset: ADXL335
- Dimensions: 21(L) x 15(W) x 11(H)mm



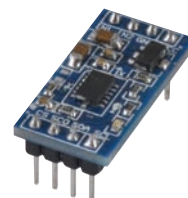
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4478	\$8.95	\$8.05

Digital Accelerometer & Tilt Module

This module allows you to measure acceleration, determine orientation, detect freefall and many other applications. Supporting both SPI and I²C, numerous arduino libraries are available.

- Protocol: SPI/I²C
- Measurement Range: +/-2g, +/-4g, +/-8g (Selectable)
- Operating Voltage: 3.3VDC - 5VDC
- Chipset: MMA7455
- Dimensions: 73(L) x 29(W) x 23(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4484	\$9.95	\$8.75

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details

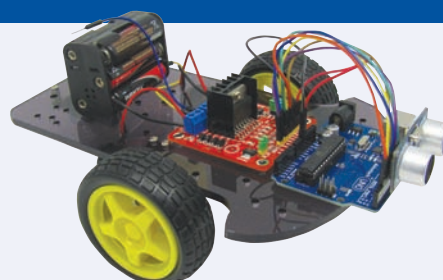


BUILD YOUR OWN WALL DODGING ROBOT WITH ARDUINO®

This little robot is fitted with an ultrasonic sensor, which it uses to help navigate its surroundings. When it detects an object in front of it, it backs up, turns a little and then continues on its way.

Shopping list:
XC-4410 duinotech Classic (Uno)
XC-4492 Arduino® Compatible Stepper Motor Controller Module
KR-3160 2wd Motor Chassis Robotics Kit
PH-9206 6x AA Battery Holder
XC-4442 Arduino® Compatible Dual Ultrasonic Sensor Module
WC-6028 150mm Plug To Socket Jumper Leads - 40 Pieces

Step-by-step project instructions and code visit www.jaycar.com.au/diy-dodging-robot



MODULES & SHIELDS - INTERFACE

Arduino Compatible XY Joystick Module

This handy module gives you X & Y axis control for your Arduino project. The board is interfaced through 5 pin header and provides a small game-pad style joystick. There is also a tactile switch when you push the stick down.

- Operating Voltage: 3-5VDC
- Digital output for tactile switch.
- X & Y axis analog outputs.
- Dimensions: 47(L) x 25(W) x 32(H)mm



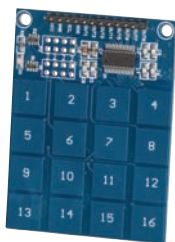
duinotech

	Cat.	Qty 1+	Qty 3+
↑	XC-4422	\$5.95	\$5.35

Arduino Compatible 16 Key Touch Keypad Module

A compact 16 key touch interface for your Arduino project, based on the TTP229 capacitive touch sensor IC. Use the module as it is, or extend wires from the pads to create external touch pads.

- Works on 2.4-5.5V
- Onboard power indicator
- Two wire serial data interface
- Dimensions: 65 x 50 x 12mm



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4602	\$9.95	\$8.75	\$7.75

Touch Shield for Arduino

The MPR121 IC is a great way to build simple capacitive touch interfaces, and now it's even easier to incorporate into your Arduino projects with the touch shield. The touch shield has 9 capacitive touch pads, with headers for the remaining 3 electrode connections. With this shield you can have a total of 12 touch sensitive buttons. An on-board logic level converter allows it to work with 5V and 3.3V Arduino boards. Simply solder on some header pins and stack it on to your Arduino for a convenient input device.



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4551	\$39.95	\$35.90	\$31.90



Workbench sent to us by: Mike Jaycar Store: Christchurch, NZ

'Hi-tech electronics, at home and on a tight budget'

This is an inexpensive 6-axis gyroscope / accelerometer sensor module that I'm experimenting with on my microcontroller.

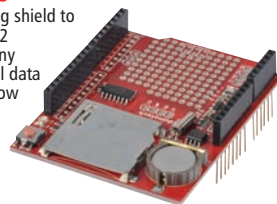
The soldering iron, wire jumpers, helping hand, desk lamp and a few cables are all from Jaycar, by the way...

For more details, visit: www.jaycar.com.au/workbench

MODULES & SHIELDS - DATALOGGING

Arduino Compatible Data Logging Shield

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.



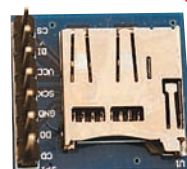
- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
↑	XC-4536	\$19.95	\$17.95

microSD Transflash Breakout Board for Arduino

Breakout board for the microSD socket that is not much bigger than your fingernail. Compatible with the SPI interface found on any SD card, this tiny form factor was created for cell phone storage and is perfect for your next MP3 project! Board comes fully assembled and tested.

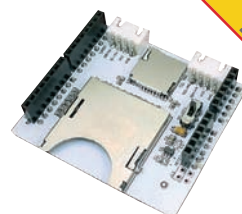


duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	XC-4597	\$19.95	\$17.70	\$15.70

SD Card Shield for Arduino

The SD card shield adds storage to your Arduino project. It supports SD, SDHC, or microSD TF cards. Use the on-board toggle switch to select the SD card type. It just uses the SPI ports of Arduino, and you can plug other shields on it. There are I²C header and UART header on board.



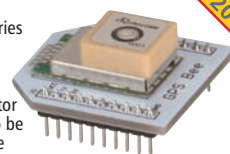
duinotech

- Operation Voltage: 3.3V
- Dimensions: 57(L) x 45(W) x 19(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	XC-4552	\$24.95	\$22.45	\$19.95

GPS Bee Breakout Board for Arduino

GPS Bee, a SKM58 breakout that adds a Xbee compatible footprint for SKM58. The SKM58 Series with embedded GPS antenna enables high performance navigation in the most stringent applications and solid fix even in harsh GPS visibility environments. The 6-pin UART connector design is the easiest and convenient solution to be embedded in a portable device and receiver like PND, GPS mouse, car holder, personal locator, speed camera detector and vehicle locator.



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	XC-4600	\$94.95	\$85.50	\$75.95

Arduino Compatible XBee Interface Shield

Break out your XBee compatible boards to the standard 2.54mm header spacing. Ideal for the XC-4600 GPS Bee.



duinotech

- Pins marked on board
- Works with other XBee boards
- 20 pins in two rows
- Dimensions: 22 x 22 x 15mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4608	\$4.95	\$4.45	\$3.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

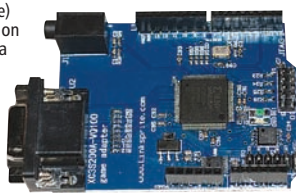


MORE INFO
ONLINE

MODULES & SHIELDS - GAMEDUINO

Gameduino for Arduino

Gameduino is a game adaptor for Arduino (or anything else with an SPI interface) built as a single shield that stacks up on top of the Arduino and has plugs for a VGA monitor and stereo speakers. The sound and graphics are definitely old-school, but thanks to the latest FPGA technology, the sprite capabilities are a step above those in machines from the past. The adaptor is controlled via SPI read/write operations, and looks to the CPU like a 32Kb RAM.



- Video Output 400x300 pixels in 512 colours
- Compatible with any standard VGA monitor (800x600 @ 72Hz)

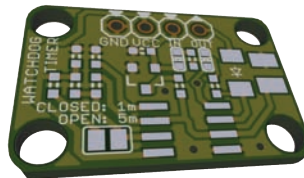
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4550	\$84.95	\$76.45	\$67.95

MODULES & SHIELDS - GENERAL

Watchdog Timer Module for Microcontrollers

This handy module connects to your Arduino or other microcontroller project and makes sure it's still running by watching for a heartbeat signal. If the signal stops, the watchdog uses the microcontroller reset line to kick it back into life. Ideal for projects that are mounted in hard-to-reach places and need to keep running with long term reliability. Selectable 5 minute or 1 minute timeout interval.



- Watches for microcontroller activity
- Resets your project if it dies
- 5 minute or 1 minute timeout interval
- Status LEDs on input and output for visual feedback
- Dimensions: 22(W) x 15(H) x 4(D)mm

freetronics

	Cat.	Qty 1+	Qty 5+
	XC-4267	\$17.95	\$15.95

Shift Register Expansion Module for Arduino

Run out of digital outputs on your microcontroller? No problem! Simply use this shift register expansion module to drive up to 8 devices using just 3 pins on your microcontroller. They can also be daisy-chained together so that you can drive 16 channels or even more without sacrificing precious output pins. Handy for all sorts of projects including driving LED 7-segment displays, dot matrix displays, multi channel relays and more.



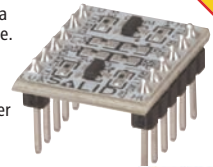
- 8 output channels per module
- Daisy-chain multiple modules together
- 2 to 6V operation
- Blue power LED
- Dimensions: 23(W) x 16(H) x 4(D)mm

freetronics

	Cat.	Qty 1+	Qty 5+
	XC-4240	\$9.95	\$8.75

TTL Level Shifter Shield for Arduino

If you've ever tried to connect a 3.3V device to a 5V system, you know what a challenge it can be. This logic level shifter is a small device that safely steps down 5V signals to 3.3V and steps up 3.3V to 5V. This level converter also works with 2.8V and 1.8V devices. Each level converter has the capability of converting 4 pins on the high side to 4 pins on the low side. Two inputs and two outputs are provided for each side.

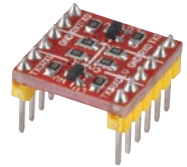


duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4599	\$5.95	\$5.35	\$4.75

Arduino Compatible Logic Level Converter Module

While most of the modules used in the Arduino® world are 5V logic, some are 3.3V. And unfortunately, connecting them directly often results in "letting out the smoke!" This little module is the answer. Provides two bi-directional channels to safely marry 3.3V with 5.0V. Drops straight into solder-less breadboard or can be soldered into your own PCBs.



- Two bi-directional channels.
- 12-pin DIL package
- Dimensions: 35(W) x 31(D) x 21(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4486	\$4.95	\$4.45



Workbench sent to us by: Robert Jaycar Store: Adelaide City

This is where dreams become something more.

Being passionate about electronics I have developed lots of devices. With the help of Jaycar's Adelaide City store I have developed, working relationships with staff over the years - Matt & Asish.

Looking forward to the year ahead.
Regards Rob

For more details, visit:
www.jaycar.com.au/workbench

LEARN MORE WITH THIS FANTASTIC BOOK:

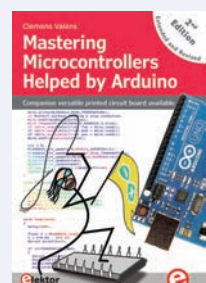
Mastering Microcontrollers Helped By Arduino

The aim of this book is not only to let you enter the World of Arduino, but also to help you emerge victorious and continue your microcontroller programming learning experience by yourself. In this book theory is put into practice on an Arduino board using the Arduino programming environment. Having completed this fun and playful course, you will be able to program any microcontroller, tackling and mastering I/O, memory, interrupts, communication (serial, I²C, SPI, 1-wire, SMBus), A/D converter, and more. All programs presented can be downloaded for free from www.elektor.com/mastering-microcontrollers. For this second edition, the author has designed a versatile printed circuit board that can be stacked on an Arduino board. The assembly can be used not only to try out many of the projects presented in this book but also allows for new exercises that in turn provide the opportunity to discover new techniques.

This book is for you if you are:

- A microcontroller novice
- An Arduino user (enthusiast, artist, etc.) wishing to deepen your knowledge
- An electronics graduate or undergraduate student
- A teacher looking for inspiration

- Soft cover, 380 pages. 209(L) x 139(W)mm



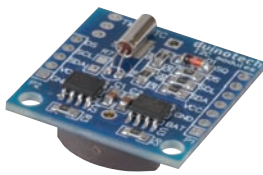
	Cat.	Qty 1+
	BM-7144	\$79.95

MODULES & SHIELDS - GENERAL (CONTINUED)

Arduino Compatible Real Time Clock (RTC) Module

This tiny little module will keep accurate time using the supplied CR2032 button battery. Great to use with all of your Arduino® projects that require the use of the date and time such as clocks, data-loggers and timers.

- Using a 24C32 32k EEPROM
- Supplied with a CR2032 battery
- Read and write functionality
- Usage time approx. 1 year fully charged
- Dimensions: 28(L) x 28(W) x 7(H)mm



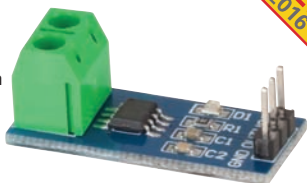
duinotech

	Cat.	Qty 1+	Qty 3+
↑	XC-4450	\$5.95	\$5.35

Arduino Compatible 30A Current Sensor Module

Monitor the motors on your next robot project with the 30A Current Sensor Module. The module outputs a voltage proportional to current passing through the sense pins on the module. Based on the ACS712 sensor IC.

- Output ratio is 66mV/A
- Can measure negative and positive current flows
- Onboard power indicator
- 5V supply required
- Current path is isolated from logic pins
- Dimensions: 31 x 13 x 15mm



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
↑	XC-4610	\$9.95	\$8.75	\$7.75

Arduino Compatible Fan with Propeller Module

Driven by a L9110H full H bridge driver, this module allows you to develop your own speed control project. A high efficiency propeller can easily blow a light flame at a distance of 200mm.

- Propeller size: 75mm diameter
- 5VDC working voltage
- 4 pin header interface
- Dimensions: 29(L) x 22(W) x 10(H)mm



duinotech

	Cat.	Qty 1+	Qty 10+
↑	XC-4534	\$19.95	\$17.95

Workbench sent to us by: Gary Jaycar Store: Maddington

My small audio repair/restoration workbench

For more details, visit:
www.jaycar.com.au/workbench



Arduino Compatible Alcohol Sensor Module

Using a MQ series gas sensor, this module easily adds alcohol detection to your project. An analog output can be used to monitor changes in alcohol concentration, while a digital output is triggered when the concentration exceeds a pre set threshold. Build your own breathalyser or automate your home-brewing.

- Twin Analog and Digital Outputs.
- Adjustable sensitivity
- Operating voltage: 5VDC
- Dimensions: 50(L) x 20(W) x 13(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
↑	XC-4540	\$9.95	\$8.75



Workbench sent to us by: Patrick Jaycar Store: Alexandria

My desk/workbench while I'm in the middle of building a bass guitar preamp/overdrive (complete with +/- 15V baby boards in the lower left corner).

Off to the right, you can just make out a tube amplifier I designed and built from scratch.

For more details, visit: www.jaycar.com.au/workbench

MAKE YOUR OWN BREATHALYSER WITH ARDUINO®

Although we call this one a breathalyser, the sensor we're using is not considered accurate enough to give accurate readings. Still, when everyone at the office heard we had an alcohol sensor, we had to have a go at building one.

We've gone with a compact form factor - a duinotech Nano and a Linker 4-digit 7-segment display. It's all just free-wired, but should fit into a small enclosure if you want to make something more permanent.

Shopping List:
1 x XC-4414 duinotech Nano Board
1 x XC-4540 Alcohol Sensor Module
1 x XC-4569 Linker 4-digit 7-segment display
1 x WC-6026 Socket-socket Jumper Leads

Step-by-step project instructions and code visit
www.jaycar.com.au/diy-arduino-breathalyser



MODULES & SHIELDS - GENERAL (CONTINUED)

Pan and Tilt Action Camera Bracket Mount for 9G Servos

This camera bracket mount is the easy way to add pan and tilt functionality to your next robot or Arduino project. Add two 9G servos (YM-2758) to complete assembly. The clips on the front are designed for an action camera to clip straight in. Or even mount an XC-4442 Ultrasonic Sensor and create an Arduino controlled sonar, or an XC-4478 Accelerometer to create a levelling gimbal.



- Easy to assemble
- Clamp for servo wires
- Servos not included
- Dimensions: 35 x 55 x 35mm (Assembled), Cable Length: 250mm

duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4618	\$4.95	\$4.45	\$3.95

Arduino Compatible 9G Micro Servo Motor

Micro servo motor, perfect for use with XC-4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino Board for experimenting.



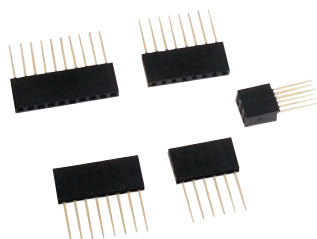
- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm

duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2758	\$9.95	\$8.75	\$7.75

Stackable Header Set for Arduino

Most Arduino shields use regular "male" pin headers for connection to the Arduino, but by using stackable headers instead you can stack shields on top of each other and use multiple shields at the same time. Of course, you need to make sure each of the shields uses different I/O pins on your Arduino! We supply the stackable headers in a pack to suit Arduino shields with the latest "R3" headers.



- Gold flash 0.1 pitch quality stackable headers

Includes:

- 1 x 10-pin
- 2 x 8-pin
- 1 x 6-pin
- 1 x 2x3-pin (for ICSP)

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM-3207	\$4.20	\$3.75	\$3.30

Workbench sent to us by: Peter Jaycar Store: Joondalup

This is my rather cramped shed where all handyman projects commence. I handle electrical, carpentry, plumbing, shadecloth & camping gear upkeep.

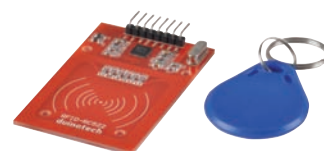


For more details, visit:
www.jaycar.com.au/workbench

MODULES & SHIELDS - RFID

Arduino Compatible RFID Read & Write Kit

This RFID module allows you to both read and write MiFare-Type RFID cards. Create your own contactless security lock. Includes one credit-card style tags and one key-fob style tag.



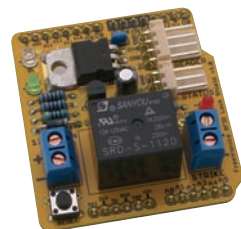
- Operating Voltage: 3.3V
- Communications Protocol: SPI
- RFID Protocol: MiFare
- Includes 1 x card and 1 x fob
- Dimensions: 66(L) x 40(W) x 7(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4506	\$19.95	\$17.95

RFID Door Lock Shield for Arduino

This shield allows your Arduino to control a door lock using an electric strike plate and one of a number of commonly available RFID modules. Based on a project in the book Practical Arduino, which includes extensive documentation. Example source code online.



- Supported readers include ID12, ID20, RDM630, RDM680, HF MultiTag, and many others
- Connections for RFID reader module, external status LEDs, and manual release button (not included)
- Output to control 12V electric door strike
- Power pass-through jumper
- Reset button wired through to Arduino reset pin
- Blue "Arduino power" LED
- Green "External power" LED
- Red "Strike plate activated" LED
- Prototyping area
- Dimensions: 49(W) x 54(D) x 27(H)mm

fretronics

	Cat.	Qty 1+	Qty 5+
	XC-4215	\$34.95	\$31.45

LEARN MORE WITH THIS FANTASTIC BOOK:

Practical Arduino

A much larger and detailed book. It takes you beyond the basics quite quickly and shows you how to make up a typical application/design. Examples of typical projects, 14 in all are worked through, ranging from simple to quite complex. This is a necessity as it goes to the heart of Arduino.

- Soft cover, 422 pages.
- 235 x 190mm

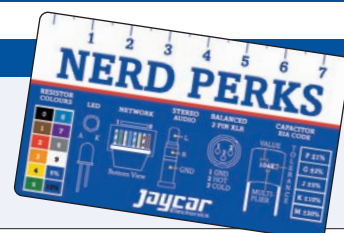


	Cat.	Qty 1+
	BM-7132	\$54.95

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Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details

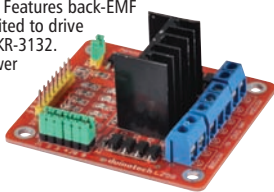


MODULES & SHIELDS - POWER & MOTOR

Arduino Compatible Dual Motor Controller Module

Using the powerful L298N Dual Motor Driver, this module allows full control of two DC Motors or one stepper-motor. Features back-EMF and over-temperature protection, it is ideally suited to drive two-motor robot kits such as our KR-3130 and KR-3132. An on-board 5V regulator can also be used to power your project.

- Maximum output current: 4A
- Motor voltage: 3-30VDC
- Screw terminals for easy connections
- LEDs show power and output status
- Requires six digital pins
- 4 mounting holes
- Dimensions: 69(W) x 56(D) x 36(H)mm



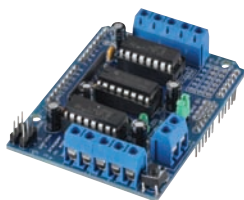
duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4492	\$14.95	\$13.45

Arduino Compatible L293D Motor Control Shield

This versatile board has 2 x 5V servo ports connected to the Arduino® high-resolution dedicated timer to ensure jitter-free operation. It is also capable of driving up to 4 bi-directional DC motors with individual 8-bit speed selection, or up to 2 stepper motors with single/two/interleaved steppings.

- 5V to 36VDC
- 4 H-Bridges: per bridge provides 0.6A (1.2A peak current) with thermal protection
- 2 external terminal power interface
- Dimensions: 70(L) x 53(W) x 20(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4472	\$12.95	\$11.35

Arduino Compatible 5V Stepper Motor & Driver Set

A small and versatile motor and driver set. 5VDC stepper motor controlled by the ULN2003 driver can be used with any Arduino® or compatible board via jumper leads.

- 5VDC stepper motor
- Stepper motor size: 28mm diameter
- Step angle 5.625 x 1/64
- Reduction ratio 1/64
- LED indicators
- Driver board size: 35(L) x 32(W) x 10(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4458	\$9.95	\$8.75

5VDC Boost Module

This module is capable of providing a stable 5V, from a single Li-Po or two Alkaline cells. Input is via two solder pads, output is via a female USB socket.

- Input Voltage Range: 2.5-5VDC
- Output Voltage: 5VDC
- Dimensions: 34(L) x 16(W) x 8(H)mm



duinotech

Note: Batteries not included

↑	Cat.	Qty 1+	Qty 5+
	XC-4512	\$4.95	\$4.45

DC - DC Stepdown Module

This module accepts any voltage from 4.5 - 35VDC, and outputs any lower voltage from 3-34V. Output is adjusted via a multi-turn potentiometer. Use it to run your 5V Duinotech projects from a 6V, 9V or even 12V supply.

- Input voltage: 4.5 - 35VDC
- Output voltage: 4 - 34VDC adjustable
- Maximum output current: 2.5A
- Dimensions: 49(L) x 26(W) x 12(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4514	\$7.95	\$7.15

Arduino Compatible DC-DC Boost Module with Display

The Arduino compatible boost module can be used to provide higher voltages for your project, such as running 5V Arduino projects from Lithium batteries.

- Output from 5V-56V
- Input range 3.5V-35V
- Maximum 2A input current without heatsinking
- Solder terminals
- Cannot be used to reduce voltage
- Dimensions: 66 x 35 x 12mm



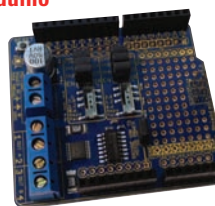
duinotech

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4609	\$19.95	\$17.95	\$15.95

H-Bridge Motor Driver Shield for Arduino

Directly drive DC motors using your Arduino compatible board and this shield, which provides PWM (Pulse-Width Modulation) motor output on 2 H-bridge channels to let your board control the speed, direction and power of two motors independently. Perfect for robotics and motor control projects.

- Drives up to 2A per motor channel
- All outputs are diode and back-EMF protected
- Dimensions: 60(L) x 54(W) x 12(D)mm



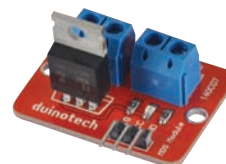
fretronics

↑	Cat.	Qty 1+	Qty 5+
	XC-4264	\$39.95	\$35.90

Arduino Compatible 24V 5A MOS Driver Module

When connected to an Arduino®, this impressive MOS driver module accepts Pulse Width Modulated (PWM) input to drive 24VDC loads. Compatible with both Arduino® and pcDuino®, making it perfect for many projects such as lighting, DC motors, pumps and solenoid.

- 3.3V & 5V DC operation
- Output load voltage 0-24VDC
- Output current 5A
- Dimensions: 34(L) x 21(W) x 16(H)mm



duinotech

↑	Cat.	Qty 1+	Qty 5+
	XC-4488	\$7.95	\$7.15

Workbench sent to us by: Alister Jaycar Store: Gold Coast

The Man Cave!

I've got almost one of everything in here! I acquire tools, and toys, on the principal that what my wife doesn't know won't hurt her.

A 3D printer would be a fantastic addition and something that my three sons would really get into.

For more details, visit:
www.jaycar.com.au/workbench

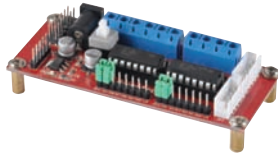


MODULES & SHIELDS - POWER (CONTINUED)

4WD DC Power Supply Motor Driver Module for Arduino

Using a L293D dual H-Bridge DC motor control chipset, this module is one for the robotics hobbyist or professional who needs 4WD with individual motor control. The motors require their own power supply, separate from the Arduino, but they can be any range from 5-16VDC.

- Motor Supply Voltage: 5-16VDC
- Logic Voltage: 5VDC
- Driver peak current 1A
- Dimensions: 92(L) x 38(W) x 17(H)mm



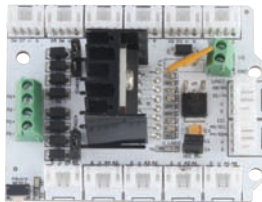
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4460	\$29.95	\$26.95

Motor Shield for Arduino

The motor shield is a perfect platform for robotics and mechanical applications. It enables the Arduino to drive two brushed DC motors or one 4-wire two-phase stepper motor. Based on the H-bridge driver chip L298N motor driver integrated circuit, it requires a 6V to 15V power supply to power the motor and also includes an on-board 5V voltage regulator for powering the main Arduino board. Additional plug and play 2.00mm spacing Grove sensors can be connected to the 13 on-board Grove connectors.

- PWM speed control mode
- 4 Direction indicator lights
- Extra large heat sink
- Supports up to 14 servos



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4556	\$39.95	\$35.90	\$31.90

4 Channel PoE Midspan Injector for Arduino

Power up to 4 EtherTens or EtherMegas with DC from a low cost plugpack across your home or office network cables. This takes all the hard work out of cutting and hacking Ethernet cables to power remote boards, it isolates and powers the correct wires automatically.

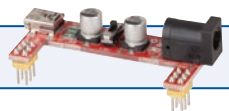
- 4 channels of input/output jacks
- 4 EtherTen or EtherMega boards can be connected directly and powered by standard network cables on the output side
- Commercial Power-over-Ethernet sources are not required
- Blue power LED
- Mounting holes / Dimensions: 88(W) x 53(H) x 19(D)mm



freetronics

	Cat.	Qty 1+
	XC-4254	\$34.95

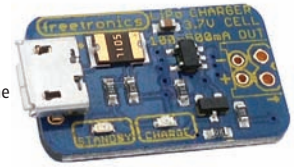
Also see our Breadboard Power Module on page 101



MODULES & SHIELDS - CHARGERS

USB Li-Po Charger for Arduino

A smart and convenient way to charge 3.7V Lithium Polymer cells from a 5V USB source such as a computer or a mobile phone charger. This charger uses an onboard charge management chip that monitors the state of the battery and adjusts the charge current accordingly to ensure the battery is charged safely.



- 5V in from USB connection (micro USB, not included)
- Output to suit 3.7V single Li-Po cell or parallel matched set of cells
- 100mA, 200mA, 300mA, 500mA selectable maximum charge rate
- Status LEDs for charge and standby
- 500mA polyfuse to protect power source
- Pads to fit 2mm JST connector or 0.1" connector

Note: No micro-USB cable or battery connector is included. Different batteries use different connectors, so the module has pads for you to mount the appropriate connector for your particular battery.

Usage

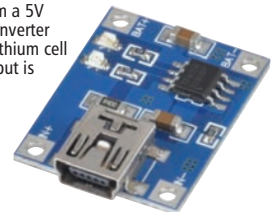
1. Connect your battery to the output of the charger.
2. Connect a micro USB cable to the input of the charger and connect to a computer USB port, or connect a mobile phone charger with a micro USB connector.
3. While charging, the "Charge" LED will illuminate and the charger will supply up to the max current configured by the current limit jumpers. As the battery approaches full charge the charger will decrease the current until full charge is reached.
4. When charging is complete, the green "Standby" LED will illuminate and the charger will stop supplying current to the battery.

freetronics

	Cat.	Qty 1+	Qty 3+
	XC-4243	\$18.95	\$17.05

Lithium Battery Charge Module for Arduino

This tiny module charges a single lithium cell from a 5V supply. Ideally paired with XC-4512 DC-to-DC Converter Module to create a device that runs on a single lithium cell and recharges by USB. Output via solder tabs, Input is either via solder tabs or a mini-USB port.



- Input voltage 4.5V-5.5VDC
- Linear charge rate of 1%
- Full charge voltage 4.2V
- Charge state LEDs
- Dimensions: 27(L) x 19(W) x 5(H)mm

Note: Batteries not included

duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4502	\$4.95	\$4.45

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details

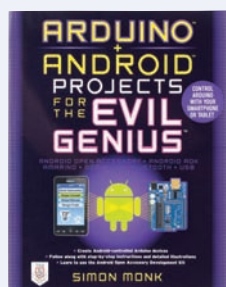


LEARN MORE WITH THESE FANTASTIC BOOKS:

Arduino + Android Projects for the Evil Genius

Once again, not particularly evil, but another project oriented book written around Android-type mobile phones and the Arduino microcontroller. You can, for example turn your Android phone into a Geiger counter, a TV remote controller, etc. Many projects use both the Arduino and the Android culminating in the creation of a home Automation system.

- Soft cover, 197 pages.
- 215 x 275mm

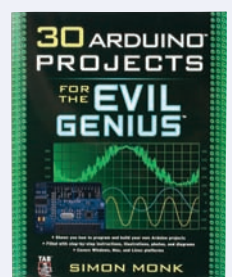


	Cat.	Qty 1+
	BM-7135	\$44.95

30 Arduino Projects for the Evil Genius

This is a practical project oriented book describing lots of projects based around the Arduino microcontroller. Be warned, there is nothing intrinsically evil about this book. The title is a catchy marketing department trick. It does have, however, 30 practical projects which specify components which are mostly available from Jaycar. Hours & hours of evil fun.

- Soft cover, 191 pages.
- 220 x 275mm

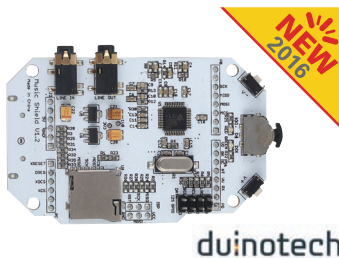


	Cat.	Qty 1+
	BM-7134	\$44.95

MODULES & SHIELDS - AUDIO

Music Shield for Arduino

A music player and recorder with professional audio quality. Capable of reading a variety of formats from the microSD card slot including MP3, WAV, MIDI, OGG Vorbis and outputs via the headphone/line out socket; recording is via the line in socket. A multifunction button is built-in and pins on Arduino board can be assigned for various music control.



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4544	\$59.95	\$53.95	\$47.90

MIDI Shield for Arduino

Add music instruments by giving your Arduino project a powerful MIDI communication protocol. The MIDI protocol shares many similarities with standard asynchronous serial interfaces, so you can use the UART pins of your microcontroller to send and receive MIDI's event messages. The MIDI Breakout provides both MIDI-IN and MIDI-OUT connections, as well as a MIDI-THRU port.

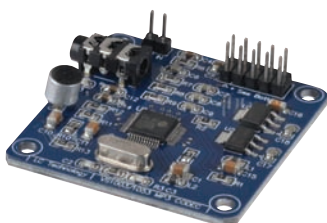


duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4545	\$44.95	\$40.45	\$35.95

MP3 Recording Module for Arduino

A full featured MP3 module that supports both playback and recording. An onboard microphone is used for audio in, and a 3.5mm jack provides the output. There is also a line-in source instead of the microphone. Most projects using this device will require some form of mass-storage, such as an SD card.



duinotech

- Input power 5VDC
- Supports MP3, MP3+V, WMA, WAV, MIDI, SP-MIDI
- UART & SPI interface
- Recording format IMA ADPCM
- Dimensions: 44(L) x 44(W) x 10(H)mm

	Cat.	Qty 1+	Qty 3+
	XC-4516	\$34.95	\$31.45

Arduino Compatible 2 x 3W Amplifier Module

This remarkably small module provides a complete 2 x 3W stereo audio amplifier. Ideal for driving small speakers and earphones. Requires no external components.



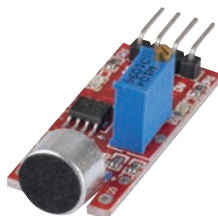
duinotech

- Operating Voltage: 2.5-5.5VDC
- Output Power: 2x3W @ 4ohm
- Efficiency: >90%
- Uses PAM8403 IC.
- Amplifier type: Class-D
- Dimensions: 23(W) x 16(D) x 2(H)mm

	Cat.	Qty 1+	Qty 5+
	XC-4448	\$4.95	\$4.45

Arduino Compatible Microphone Sound Sensor Module

This unit is highly sensitive with the added advantage of having two outputs. An analogue output for real time microphone voltage signal, and a digital output for when the sound intensity reaches its threshold. Great to turn your Arduino® into a voice recorder or vox.



duinotech

- 5VDC operational voltage
- Sensitivity potentiometer adjustment
- Dimensions: 43(L) x 16(W) x 13(H)mm

	Cat.	Qty 1+	Qty 5+
	XC-4438	\$7.95	\$7.15

Active Buzzer Module

Use this module to generate sound from your Arduino; libraries are available to produce different tones and frequencies.



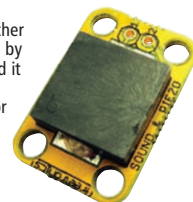
duinotech

- Operating voltage 5VDC
- Active speaker
- 3 pin header
- Dimensions: 25(L) x 15(W) 10(H)mm

	Cat.	Qty 1+	Qty 5+
	XC-4424	\$3.95	\$3.45

Sound & Buzzer Module for Arduino

This versatile piezo-element module can be used for either input or output! It can be used as a noise-maker driven by your microcontroller for audible feedback of events, and it can also be used as a knock-detector input to sense events and react to them. Includes a built-in 1M resistor to allow the piezo element to detect shocks.



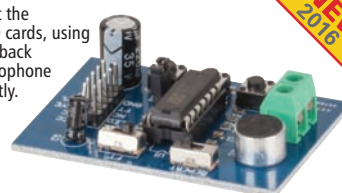
fretronics

- Frequency response 0-20kHz, peak resonant frequency: 4KHz +/-500Hz
- Sound pressure level at 10cm: 75dB (min)
- 1 to 25V rated voltage (3 to 5V typical)
- Built-in 1M resistor for knock sensor functionality
- Dimensions: 23(W) x 16(H) x 5(D)mm

	Cat.	Qty 1+	Qty 5+
	XC-4232	\$13.95	\$12.35

Arduino Compatible Record & Playback Module

Add sound to your Arduino without the complexity of MP3 modules and SD cards, using the ISD1820 based record and playback Module. Includes an on-board microphone and can drive a small speaker directly.



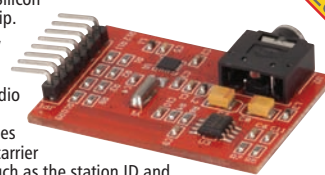
duinotech

- Records up to 10 seconds
- Control playback from module buttons or digital inputs
- Works on 3.3V or 5V
- Can work in loop or single play mode
- Dimensions: 54 x 38 x 10mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4605	\$9.95	\$8.75	\$7.75

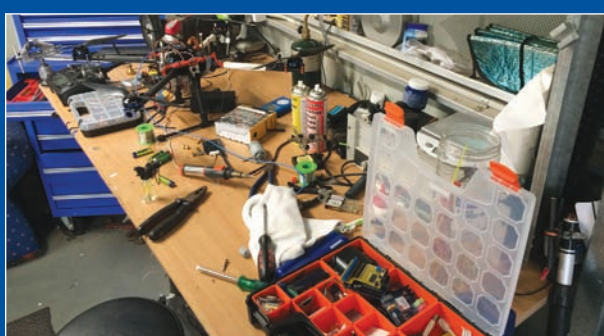
Si4703 FM Tuner Breakout Board for Arduino

This is a breakout board for the Silicon Laboratories Si4703 FM tuner chip. Beyond being a simple FM radio, the Si4703 is also capable of detecting and processing both Radio Data Service (RDS) and Radio Broadcast Data Service (RBDS) information. The Si4703 even does a very good job of filtering and carrier detection. It also enables data such as the station ID and song name to be displayed to the user.



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4595	\$24.95	\$22.35	\$19.70



Workbench sent to us by: Nathan Jaycar Store: Wagga Wagga

To the untrained eye it would appear to be a game of 'where's Wally' when trying to locate something at this workspace! However I know precisely where everything is located ;).

For more details, visit: www.jaycar.com.au/workbench

MODULES & SHIELDS - LCD

Arduino Compatible Keypad Shield with LCD

Comes with a built-in 16 character by 2 line LCD display with backlight, this six push button keypad allows you to create a user friendly interface for your project. The keypad consists of up, down, left, right, select and also a reset button. Perfect to use as a selection menu.

- 16 Characters x 2 lines (32 Characters)
- Contrast adjust knob
- LED Backlight
- 4 Bit Arduino LCD Library
- Dimensions: 80(W) x 58(D) x 20(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4454	\$19.95	\$17.95	\$15.95

Arduino Compatible 84 x 48 Dot Matrix LCD Display Module

These compact LCD displays are identical to those found in some old Nokia phones, and feature the PCD8544 chipset. An easy way to add a small black and white graphics display to your project.

- 8 pin plug
- SPI interface
- Four mounting holes
- Can work off 3.3V or 5V supply
- Needs 10k resistors for IO pins if running off 5V
- Dimensions: 44 x 44 x 13mm



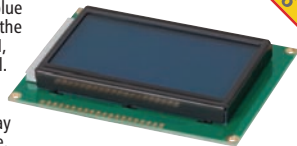
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4616	\$19.95	\$17.95	\$15.95

Arduino Compatible 128 x 64 Dot Matrix LCD Display Module

A larger display than XC-4616 with cool blue graphics on white background. Similar to the character LCDs with inbuilt character ROM, but the flexibility to show graphics as well.

- 5V supply
- 128 pixels wide by 64 pixels high display
- 8 bit, 4bit and serial interfaces available.
- White backlight



duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4617	\$29.95	\$26.95	\$23.95

Serial UART 16x2 LCD for Arduino

The serial UART 16x2 LCD allows you to control a parallel based LCD over a single-wire serial interface. The serial LCD takes care of all the HD44780 commands allowing seamless integration with any micro that can communicate over a wide range of TTL serial baud rates. You can dim the backlight to conserve power if needed. There is also a potentiometer on the backpack to adjust the contrast.

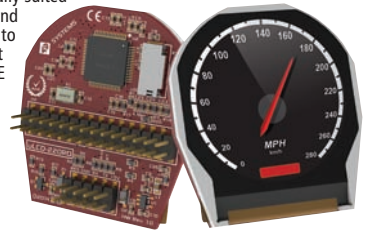


duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4601	\$39.95	\$35.90	\$31.90

Intelligent 1.3" Round LCD Module for Arduino

This innovative circular display is ideally suited to graphical gauges, needle-meters and robotics projects. This display is easy to program and interface to your project with 4D systems free Workshop-4-IDE software. A 2GB microSD card is provided to store graphical elements. Additional inputs and outputs are available to augment your project.



See our website for full feature list.

- Resolution: 220 x 220 (Round)
- Colours: 65K
- 16 GPIO pins
- 4 Analog Inputs
- Up to 6 PWM outputs.
- Up to 3 SPI ports
- Up to 4 Serial TTL ports
- Up to 3 I2C ports
- PWM Audio output, play .WAV files from SD card.
- Dimensions: 43(L) x 47(W) x 14(D)mm

4D SYSTEMS
TURNING TECHNOLOGY INTO ART

	Cat.	Qty 1+	Qty 3+
	XC-4284	\$159.00	\$142.95

MODULES & SHIELDS - LEDS / LASER

Arduino Compatible Red Laser Diode Module

Need a red laser light for your latest project? Here it is! Everything you need to drive the laser diode is included on the board. Just connect it to 5VDC and you're good to go! Use it with our light sensor module XC-4446 to make a laser tripwire.



- Operating Voltage: 5VDC
- Output power: <1mW
- Wavelength: 650nm(Red)
- Dimensions: 45(W) x 23(D) x 10(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4490	\$4.95	\$4.45

3W LED Module

A high brightness LED in an easy to use modular package. Includes a PWM input for brightness control.



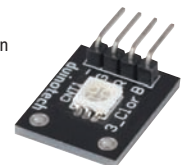
- Operating Voltage: 5VDC
- Power Consumption: 3W
- Light Output: 200 Lumens
- Colour Temperature: 6000K
- Dimensions: 30(L) x 23(W) x 6(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4468	\$10.95	\$9.85

Arduino Compatible RGB LED Module

Using a 5050 RGB LED, by adjusting a PWM signal on the three primary colours the user can gain the full colour spectrum. This tiny module can be interfaced with a variety of microcontrollers.



- 3.3V to 5V operation
- 4 pin header
- Common ground led
- Dimensions: 25(L) x 15(W) x 2(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4428	\$4.95	\$4.45

MAKE YOUR OWN SECRET KNOCK DETECTOR WITH ARDUINO®

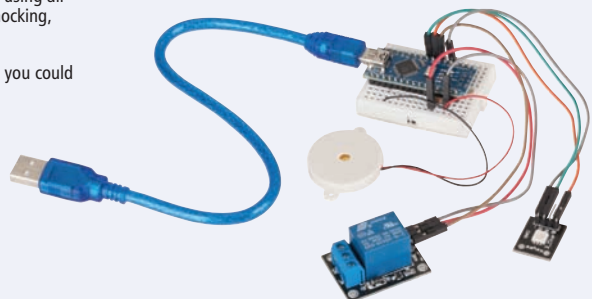
We saw this project on Instructables, and had to try it for ourselves. Of course, we ended up using all the duinotech parts we had around. It uses a piezo transducer as a microphone to detect knocking, and then activates a relay if the correct knock sequence is detected.

The original project was designed to unlock a door, but our version has a relay output which you could use for just about anything.

Shopping List:

- 1 x XC-4414 duinotech Nano Board
- 1 x PB-8817 Mini Breadboard with 170 tie points
- 1 x WC-6028 Plug-Socket Jumpers
- 1 x XC-4419 5V Relay Board
- 1 x AB-3440 Piezo Transducer
- 1 x RR-1656 2.2M Ohm resistors (anything in the megohms should work)
- 1 x XC-4428 RGB LED Module

Step-by-step project instructions and code visit www.jaycar.com.au/diy-secret-knock-detector



MODULES & SHIELDS - LED DISPLAYS

Arduino Compatible 4 x RGB LEDs Module

Display a full range of colours with this RGB LED module. The 4 x SMD 5050 LEDs onboard are super bright and controlled by the 74HC595 chip.

- 5VDC operation
- Colours: RGB
- Dimensions: 48(L) x 38(W) x 5(H)mm



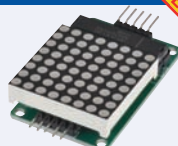
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4466	\$13.95	\$12.35

Arduino Compatible 8 x 8 LED Dot Matrix Module

A 64 x red LED matrix, this module is easily controlled with the LedControl library. Display your own custom characters, or use multiple modules together to make a scrolling display.

- Operating Voltage: 5VDC
- Protocol: SPI
- Chipset: MAX7219
- LED Colour: RED
- Dimensions: 62(W) x 32(H) x 14(D)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4499	\$7.95	\$7.15



Workbench sent to us by: Paul Jaycar Store: Taren Point

It's my little spot for after-work relaxation and experimentation.

For more details, visit:
www.jaycar.com.au/workbench

Workbench sent to us by: Jeremy Jaycar Store: Wellington NZ

Current project is the hexapod with yellow legs lower left of the image - Gizmos along the top are various things I've collected over the years that inspire me. Gizmo on the right with the Hazard tape is 'Huxley', my home made RepRap 3D printer.

Mess of wires near the microscope is another project in progress - There's a laser pointer / detector pair under the desk (you can just make out the white detector below the hexapod), so the lights come on automatically whenever I'm standing at the workbench... Desks are made from recycled bits, so a bit mismatched, but functional...

My sister made me the 'Punk Monk Elf' sculpture above the microscope for my birthday, so it's got it's own special place with dedicated lighting.

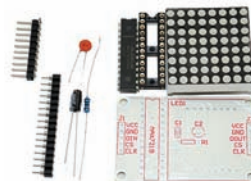
For more details, visit:
www.jaycar.com.au/workbench



LED Matrix Kit for Arduino

This 8x8 LED matrix kit is powered by MAX7219 and it only needs 3 data lines and 2 power lines. It is easy to use and has adjustable brightness. Usually used as electronic display panel. Can be driven in parallel or serial and takes less than 0.1s to light up all 8 rows/columns so a dynamic display can be achieved in either connection.

- Kit includes:
- Chipset: MAX7219
 - Electrolytic capacitor: 10uF/25V
 - Resistor: 10K
 - Capacitance: 0.1uF
 - Headers and receptacles
 - LED Matrix dimensions: 52(L) x 34(W)mm



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4592	\$29.95	\$26.90	\$23.70

LoL Shield for Arduino

The LoL Shield is a charlieplexed LED matrix for the Arduino. LEDs are individually addressable so you can use it to display anything in a 9 x 14 grid. Scroll text, play games or display images, you can choose to use the LoL Shield Library or program the animation manually.

- 126 individually controlled LEDs
- Great DIY solder project



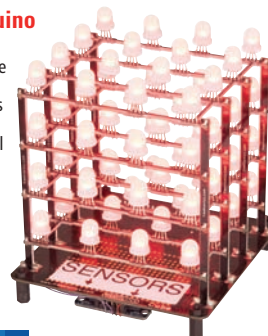
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4546	\$39.95	\$35.90	\$31.90

RGB LED Cube Kit 4x4x4 for Arduino

This stunning 3D-matrix of 64 RGB LEDs incorporates an onboard Arduino-compatible controller so you can produce mesmerising light shows controlled by software. Use it as a mood light, or create your own "ambient device" that gently notifies you of new email or instant messages!

- 4 x 4 x 4 matrix of individually addressable 8mm RGB LEDs
- Arduino driver library with example programs
- Includes ZigBee headers so you can add a wireless module
- Requires assembly
- Dimensions: 106(W) x 130(H) x 106(D)mm (assembled)



freetrronics

	Cat.	Qty 1+	Qty 3+
	XC-4274	\$119.00	\$106.95

MODULES & SHIELDS - DISPLAYS (CONTINUED)

8 x 8 Dot Matrix Driver Module

Use this module to drive an 8x8 dot matrix display. Driven by shift registers it requires only three inputs, plus power. Multiple modules can be directly daisy chained to make a longer display. Perfect for making a sign or scrolling message board. Headers are sized for a standard size 8x8 display, but it can drive any array if connected by jumpers. LED display not included.

- Operating Voltage: 5VDC
- Daisy-chainable.
- Chipset: 74HC595
- Dimensions: 72(L) x 69(W) x 12(H)mm



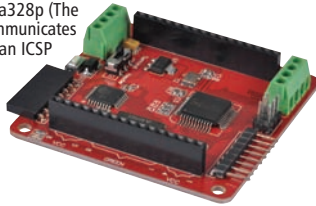
duinotech

	Cat.	Qty 1+
	XC-4532	\$19.95

Arduino Compatible I²C RGB Dot Matrix Driver Module

A full colour RGB display driver designed to drive a tri-colour 8x8 dot matrix. Driven by an ATmega328p (The same chip as the Arduino), this module communicates with your project via I²C. Alternatively, use an ICSP programmer (XC-4237) to flash your own firmware and the device no longer requires an external controller. Multiple modules can be daisy chained together to make a longer sign or scrolling display.

- Operating Voltage: 5VDC
- Microcontroller: ATmega328
- Display Controller: DM163 + M54564FP
- ICSP header
- Daisy-Chainable
- Dimensions: 66(L) x 60(W) x 12(H)mm



duinotech

	Cat.	Qty 1+	Qty 3+
	XC-4498	\$44.95	\$40.45

128x128 Pixel OLED Display Module for Arduino

Light up your display needs with this high resolution, full colour OLED display module! Perfect for graphics, gauges, graphs, even make your own video game or interactive display.

- microSD card slot
- 16,384 full colour RGB pixels in a 128 x 128 format
- Active display area 28.8 x 26.8 mm, (1.5 inch diagonal)
- 4 removable mounting tabs
- Simple interface with Arduino compatible library, graphics and text functions plus examples
- Dimensions: 44(W) x 36(H) x 5(D)mm



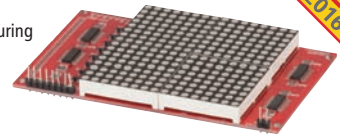
freetronics

	Cat.	Qty 1+	Qty 3+
	XC-4270	\$66.95	\$59.95

Arduino Compatible 16x16 LED Dot Matrix Module

A compact LED Matrix display featuring 256 individually addressable LEDs. Stack multiple boards side by side for a larger display.

- 5V supply required
- 74HC138 decoder IC's
- Includes jumper cables and header strips
- Dimensions: 113 x 64 x 12mm



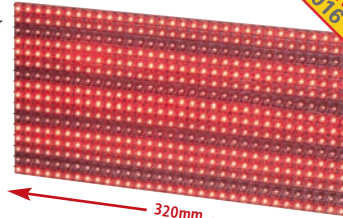
duinotech

	Cat.	Qty 1+	Qty 5+
	XC-4607	\$29.95	\$26.95

Large Dot Matrix LED Display Panels for Arduino

Large 32 x 16 pixel LED display for your Arduino to create message boards, clocks, spectrum analysers, games for the home, office, shop, etc. The controller circuitry is built on-board so the display only needs six digital pins to control all 512 LEDs.

- 10mm LED pitch
- Can be daisy-chained for larger displays
- Use a 5V 3A Power Supply (MP-3480) for full brightness
- Dimensions: 320(W) x 160(H) x 30(D)mm



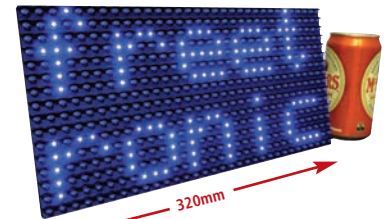
duinotech

	Cat.	Qty 1+	Qty 5+
Red	XC-4621	\$29.95	\$26.95
White	XC-4622	\$39.95	\$35.95

Large Dot Matrix Display Panel for Arduino

A huge dot matrix LED panel to connect to your Freetronics Eleven, EtherTen and more! This large, bright 512 LED matrix panel has on-board controller circuitry designed to make it easy to use straight from your board. Clocks, status displays, graphics readouts and all kinds of impressive display projects are ready to create.

- 32 x 16 high brightness Blue LEDs (512 LEDs total) on a 10mm pitch
- 5V operation
- Viewable over 12 metres away
- Tough plastic frame
- Controller IC's on board, simple clocked data interface
- Arduino compatible library, graphics functions and example support
- Dimensions: 320(W) x 160(H) x 14(D)mm (30mm(D) including rear connectors)



Note: Can for comparison only

freetronics

	Cat.	Qty 1+	Qty 5+
Blue	XC-4251	\$89.95	\$80.95

Workbench sent to us by: Steven Jaycar Store: Perth

This is part of the Murchison Widefield Array (MWA), a radio telescope that my colleagues and I built in the Western Australian outback. It took almost a decade of tinkering at 15 institutions in four countries to design and prototype, and two years to construct. The MWA looks back in time 13 billion years, to watch the first stars and galaxies forming after the Big Bang. The MWA is located in Murchison Shire, about 800 km north of Perth and about 350 km north-east of Geraldton. The MWA operates between 80 - 300 MHz, making it the world's most sensitive FM receiver!

For more details, visit:
www.jaycar.com.au/workbench



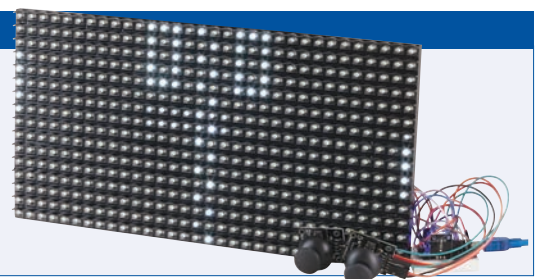
MAKE YOUR OWN PONG GAME WITH ARDUINO®

Create your own version of the classic Pong game with one of our super bright LED matrix boards and an Arduino Nano. Make a stylish talking point for your wall or coffee table, or just a fun game to play. Easy to assemble with duinotech parts & no soldering, this retro project is something all ages can enjoy.

Shopping list:

1 x XC-4414 duinotech Nano	1 x XC-4622 or XC-4621 LED Dot Matrix Displays
2 x XC-4422 duinotech Joystick Modules	1 x XC-4424 Buzzer Module
1 x PB-8817 Mini Breadboard	1 x WC-6028 Plug to Socket Linker
1 x RR-0596 Resistor Pack	

Step-by-step project instructions and code visit: www.jaycar.com.au/diy-pong-game



ULTIMATE BREADBOARD

Ever since hobby electronics experimentation began, enthusiasts have been looking for better ways to "lash up" a prototype circuit. Indeed, the term 'breadboard' was literally that. You simply borrowed your mum's bread cutting board and drove some nails into the wooden surface and connected wires to the nails to form your circuit. It worked, but it was cumbersome. Better 'Breadboards' came along, including the system we use in "Short Circuits" - see page 114 in this catalogue and of course the plug-in breadboarding system on page 101. There are also experimenters' boards as well.



BASIC EXPLANATION OF "ULTIMATE BREADBOARD"

The system starts with a piece of Printed Circuit Board base. It can be fibreglass or Phenolic. It could even be non-PCB a piece of scrap 'Laminex' or stiff plastic card will suffice. We use PCB material because the copper on one side (or both sides) can come in handy.

Here's the clever bit. We have produced a range of small blank PCB pieces to become anchor points for your breadboard. The anchor points can be round 3 or 5mm discs or more complex 'islands' to mount electronic components to. You attach the discs to the PCB baseboard (your equivalent breadboard) with a tiny drop of superglue. These are located where you need a connect components together to form a circuit (See Fig. 1). The top of the disc still has some copper on it. You then solder to that little island. The beauty of this is that you can translate a schematic circuit diagram almost EXACTLY onto the breadboard! Other systems have fixed grids and you have to interpret the schematic to the rigid pattern of their grid.

Packet of 3 & 5mm Anchor Points

These are the basic parts of the system. 3mm for small anchor terminations. 5mm for multiple terminations/anchor points. With skill you will not need larger anchoring islands, but if you do, simply glue 2 alongside each other and bridge across.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 20 x 3mm & 10 x 5mm	HP-9564	\$2.95	\$2.60	\$2.40
Pack of 40 x 3mm & 20 x 5mm	HP-9565	\$4.95	\$4.45	\$4.00

Circuit prototyping takes a whole leap forward with our new "Ultimate Breadboard"® system! It is without a doubt the most flexible simple way of making up prototypes with absolutely minimum resources. The system is based on ubiquitous and cheap blank PCB material. It is so simple strictly speaking you don't even need us to supply you anything. You can, in fact, make the components yourself.



Good for RF. The problem for plug-in terminal strip breadboard is stray capacitance. This limits the bandwidth of circuits to fairly low frequencies. The Ultimate Breadboarding system is good to at least 500MHz with careful attention to short component leads. The copper-clad PCB base is a built-in ground plane as well, not to mention an earth.

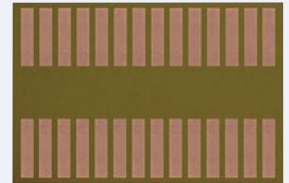
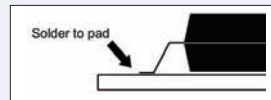
We believe that this is a revolutionary prototyping system and was developed by one of our rocket scientists, Gil McPherson. We claim copyright on all aspects of this. Separate components (available individually).

See page 46 for a suitable tube of Super Glue and the next page for a suitable blank PCB Substrate

DIL Mounting Kits

These are PCB strips that enable you to mount Dual-in-line ICs to your breadboard. They are available in 0.3" pitch and can be trimmed to suit individual IC configurations*. They come as a kit but not include IC sockets. The sockets can be purchased separately. If you are using surface mount ICs you can discard the IC socket and solder directly to the pad. Kit consists of two x 0.3" boards up to 28 pin long.

*To mount DIL IC the pins must be bent at right angles and soldered to pad like this:



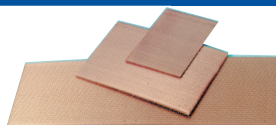
↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2		HP-9566	\$5.95	\$5.50	\$4.75

PCB EXPERIMENTING & PROTOTYPING

PC Boards - Vero Type Strip

Alphanumeric grid, pre-drilled 0.9mm, 2.5mm spacing.

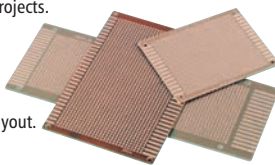
- Dimensions: 95mm wide x 3 handy lengths



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
75mm	HP-9540	\$4.50	\$3.95	\$3.60
152mm	HP-9542	\$7.95	\$6.95	\$6.25
305mm	HP-9544	\$11.50	\$10.35	\$8.95

Universal Pre-Punched Experimenter's Boards

The low cost way to build prototype or one-off projects. We now stock 3 sizes of phenolic board that has a matrix of punched holes on 0.1" (2.5mm) pitch with 'donut' of tin plated copper around each hole. Finally the non-solder side of the board has an alphanumeric grid printed on it to assist in the component identification board layout.



SMALL - HP-9550

95 x 72mm, 25 x 30 holes (750) 3.6mm edge pitch.

MEDIUM - HP-9552

140 x 95mm, 29 x 50 holes (1450) 2.5mm edge pitch.

LARGE - HP-9554

210 x 78mm, 24 x 67 holes (1608) 3.6mm edge pitch.

Close up



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	HP-9550	\$4.50	\$3.95	\$3.60
Medium	HP-9552	\$6.95	\$6.25	\$5.50
Large	HP-9554	\$8.95	\$7.95	\$6.95

Unclad Punched Laminate

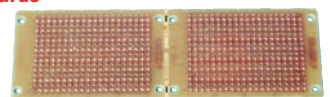
A single 150(L) x 70(W)mm strip of phenolic punched at 0.1" (2.5mm) grid with NO laminate (copper) on either side.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9562	\$5.50	\$4.90	\$4.30

Ultra Mini Experimenter's Boards

20 holes deep by 16 holes wide with "links" and "strips" (bus rails) every 2 holes. Board measures a compact 65 x 45mm and is extremely versatile. Supplied as a pair, end-to-end. Can be snapped apart to make two boards (dimensions above) or one 130 x 45mm 0.3" wide x 0.1" pitch.



- Ideal for DIL ICs in small numbers.

Close up



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9556	\$4.95	\$4.45	\$3.90

IC Experimenter's Board

You can fit dozens of DIL ICs on this board. 30 holes deep x 50 holes wide, with a "link"/"strip" (bus rails) pattern enabling alternate V+ and earth rails. Very versatile.



- Alphanumeric markings on grid pattern
- Dimensions: 140 x 95mm

Close up



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9558	\$6.95	\$6.25	\$5.50

Spot Face Cutter for Strip Boards

The spot face cutter is designed to neatly remove copper strip on strip type prototyping boards. Insert the tool in the pre-drilled hole and rotate it until the track is removed entirely. Easy to use and much more efficient than other methods.



- Dimensions:
Handle: 60(L) x 17(W) x 17(D)mm
Total Length: 110mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2461	\$8.95	\$8.25	\$6.95

PROTOTYPING ACCESSORIES - BREADBOARDS & JUMPER LEADS

Arduino® Compatible Mini Breadboard with 170 Tie Points

With self-adhesive tape on the back, it is ideal for DIY projects including Arduino®. It has 17 holes x 10. Total 170 holes. It can also be permanently mounted with screws (not included).

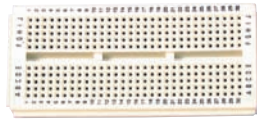


- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 46(L) x 35(W) x 9(H)mm
- Weight: 14g

↑	Cat.	Qty 1+	Qty 5+
	PB-8817	\$4.95	\$4.45

Mini Breadboard

One terminal strip supplied which gives 30 holes x 10. Total 300 holes.

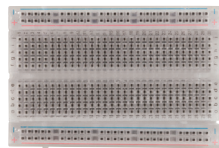


- Dimensions: 39(W) x 87(L)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8832	\$12.95	\$11.35	\$10.35

Arduino Compatible Breadboard with 400 Tie Points

Mid-sized prototyping breadboard with 400 tie points.

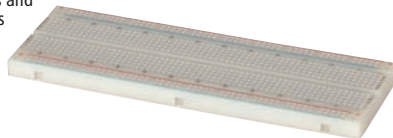


- 300 tie points in centre section
- 100 tie points on power rails
- Dimensions: 83 x 55 x 10mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	PB-8820	\$7.50	\$6.75	\$6.00

Arduino® Compatible Breadboard with 830 Tie Points

With labelled rows and columns and adhesive back for mounting, it is ideal for electronic prototyping and Arduino® projects.

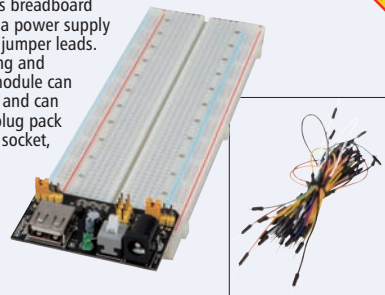


- Tie points: 830
- Distribution holes: 200
- Terminal holes: 630
- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 165(L) x 54(W) x 9(H)mm
- Weight: 74g

↑	Cat.	Qty 1+	Qty 5+
	PB-8815	\$14.95	\$13.45

Solderless Breadboard with Power Supply & Jumper Lead Kit

This kit comprises of a solderless breadboard with 830 connection tie-points, a power supply module and 64 pieces of mixed jumper leads. Ideal for circuit board prototyping and Arduino® projects. The power module can be plugged into the power rails and can be powered from either a 12V plug pack or from 5V using the micro USB socket, and has a switchable output between 3V and 5VDC.

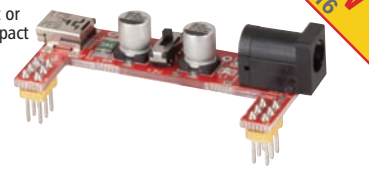


- 1 x Solderless Breadboard with 830 Points
- 1 x Power Supply Module
- 64 mixed jumper wires of different lengths and colours

↑	Cat.	Qty 1+	Qty 5+
	PB-8819	\$19.95	\$17.95

Arduino Compatible Breadboard Power Module

Receiving power from a USB socket or DC socket, this module adds a compact power supply to your breadboard.



- Plugs straight into most bread boards
- Can be set to 3.3V or 5V
- Concave design saves space
- Dimensions: 57 x 24 x 21mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4606	\$9.95	\$8.75	\$7.75

Breadboard

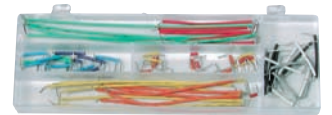
- 1660 tie points
- 400 distribution holes / 1280 terminal holes
- Mounted on a metal plate
- 3 banana terminals
- Rubber feet
- Dimensions: 157(W) x 237(H)mm
- Board size: 130(W) x 175(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8816	\$43.95	\$38.45	\$34.95

Breadboard Jumper Kit

This kit consists of 70 pcs of single core sturdy wire which has been stripped on each end and bent at right angles.



- Specifically made for breadboards
- There are 5 pcs each of 14 different lengths

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8850	\$13.50	\$11.35	\$10.35

150mm Jumper Leads - 40 Pieces

A pack of 40 jumper leads of various colours for prototyping. Ideal for Arduino® and DIY projects. Each flexible lead is 150mm long with pins to suit breadboards or PCB headers.



↑	Cat.	Qty 1+	Qty 5+
Plug to Plug	WC-6024	\$5.95	\$5.35
Socket to Socket	WC-6026	\$5.95	\$5.35
Plug to Socket	WC-6028	\$5.95	\$5.35

Jumper Lead Assortment Kit - 90 Pieces

Jumper lead set for use in Arduino® projects, school experiments and other hobbyist activities. A kit of 90 pieces measuring 220mm in length.



↑	Cat.	Qty 1+	Qty 5+
	WC-6029	\$14.95	\$13.45

Economy Breadboard Jumper Kit

Solid core hookup cable, which is the ideal size for breadboards. Cut it to whatever lengths you require and strip the ends.



2 metres each of 5 colours
 Colours may vary from time to time.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Pack	WH-3032	\$4.50	\$3.95	\$3.60

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



INTO THE DEEPEST JUNGLE

If you are perusing this section you are a real hardcore electronics hobbyist. You are in real soldering-iron territory. Good on you!

PROTOTYPING ACCESSORIES

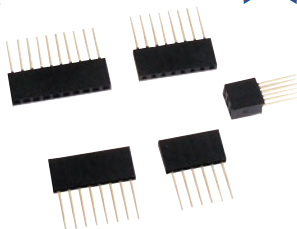
Stackable Header Set for Arduino

Most Arduino shields use regular "male" pin headers for connection to the Arduino, but by using stackable headers instead you can stack shields on top of each other and use multiple shields at the same time. Of course, you need to make sure each of the shields uses different I/O pins on your Arduino! We supply the stackable headers in a pack to suit Arduino shields with the latest "R3" headers.

- Gold flash 0.1 pitch quality stackable headers

Includes:

- 1 x 10-pin
- 2 x 8-pin
- 1 x 6-pin
- 1 x 2x3-pin (for ICSP)



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM-3207	\$4.20	\$3.75	\$3.30

Polymorph Pellets

Polymorph will change the way you make parts. It's a commercial grade thermoplastic that softens enough to be formed into any shape at around 62 - 65° C. You simply heat the pellets in hot water. It hardens at room temperature to form a tough plastic material similar in consistency and colour to Nylon. It can be drilled, sanded, ground, machined, painted or heated and reformed again and again. Endless uses in model making, craft, single part manufacture, prototyping, engineering, science, lab and more.



This car was moulded in minutes using a car baking tin!

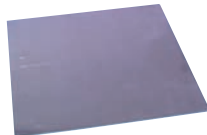
- Supplied in a 100g bag of 3mm pellets.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	NP-4260	\$11.50	\$10.35	\$8.95

See page 100 for details of our brand new Breadboarding/Prototyping System you will be pleasantly surprised!

Aluminium Sheet

18 gauge.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM-9500	\$13.95	\$12.35	\$10.95

Perspex - Red or Grey

- 3mm thick
- Supplied with peel-off film



↑		Cat.	Qty 1+	Qty 4+	Qty 10+	
	Red	195 x 195mm	HM-9505	\$13.95	\$12.35	\$10.95
	Grev	195 x 195mm	HM-9507	\$13.95	\$12.35	\$10.95

Clear Acrylic Sheet

General purpose clear acrylic (Perspex) sheet for hobby use. Suitable for displays etc.

- Supplied with peel-off protection film



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
195 x 195 x 3mm	HM-9509	\$13.95	\$12.35	\$10.95

Blank Fibreglass PCB

Pure copper bonded to quality fibreglass base.

- HP-9514, 9512, 9510 are single sided
- HP-9515 is double sided
- Ideal for our "ULTIMATE BREADBOARD" - see page 100



↑	mm	Cat.	Qty 1+	Qty 4+	Qty 10+
	150x75	HP-9514	\$5.95	\$5.25	\$4.75
	150x150	HP-9512	\$8.95	\$7.95	\$6.95
	150x150	HP-9515	\$9.95	\$8.75	\$7.75
	300x300	HP-9510	\$19.95	\$17.95	\$15.95

Etch Resistant & Waterproof Pen

The ink from the pen is etch-resistant so you have a quick and simple way of making a PCB! Being waterproof it is also great for labelling things on or about the boat, caravan or motorhome. The ink will wash off afterwards with metho, turps, etc.

- Excellent smudge-proof and waterproof qualities
- Dries in seconds
- Low-odour ink
- Xylene and toluene-free ink
- Line width fine approx. 0.6mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Blue	TM-3002	\$4.95	\$4.45	\$4.00

PCB Etching Kit

An ideal kit for anyone needing to etch a circuit board - complete with an assortment of copper boards, etchant, working bath and tweezers. It also includes a positive acting photosensitive PCB and developer.

- Supplied with:
- 1 x Plastic bath to accept PCBs up to 180 x 110mm
- 1 x Photosensitive single sided PCB
- 1 x Sachet of positive developer for Riston
- 1 x 100g sachet of sodium persulphate etchant
- 1 x Plastic tweezers Assortment of PCB's, instructions



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG-9990	\$27.95	\$24.95	\$22.35

Etch Your Own PC Boards Booklet

Need just one or two printed circuit boards, for a magazine project or a prototype for your latest design? It's not too hard to etch your own single sided or even double sided boards, especially if you have access to a photocopier or a PC and laser printer. In this tech update we tell you all you need to know.



↑	Cat.	Qty 1+
	BI-8212	\$2.00

Ammonium Persulphate - 400gm

The alternative to ferric chloride. Mix contents (400 grams) with 1.5 litres of hot water to etch copper boards. The contents will treat about 500sq/cm of PCBs.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	NC-4254	\$12.95	\$11.35	\$10.35



Workbench sent to us by: Shanan Jaycar Store: Erina

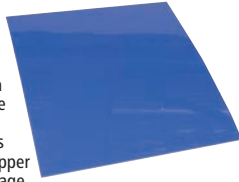
The Lab, where drones are built, electric motors are experimented with, and semi conductors are fried. And as all man caves should be, it remains in a perpetual state of disharmony!

For more details, visit: www.jaycar.com.au/workbench

PROTOTYPING ACCESSORIES (CONTINUED)

Press 'n' Peel Film

This is by far the easiest way to make Printed Circuit Boards from CAD software or magazine PCB layout artwork. You simply make the PCB image by putting a Press 'n' Peel sheet of transfer film in the paper tray of a photocopier or laser printer (The sheet size is almost the same as the A4 paper tray). You then print or copy the PCB track image onto the film. Using a domestic clothes iron you press the image onto a pre-cleaned piece of copper clad PCB. The image transfers to the copper and the image will not etch away. Ammonium persulphate or ferric chloride are both OK. You get 5 sheets of 215 x 280mm transfer film in each pack. Full instructions are supplied.



4 Easy Steps:

1. Print or Copy
2. Iron on
3. Peel off
4. Etch



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	HG-9980	\$35.00	\$31.45	\$27.95

PCB Wash Defluxing Solution

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts de-greasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water-based (Biodegradable)



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA-1070	\$14.95	\$13.45	\$11.95

CONDUCTIVE COMPOUNDS

Wire Glue

A soldering iron in a jar. Wire Glue is an electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or aren't able to apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM-2831	\$9.95	\$8.75	\$7.75

Conductive Carbon Grease

Lubricates and improves electrical and thermal connections between sliding surfaces, while providing protection from moisture & corrosion. Excellent for use on switches and EMI shielding applications. Industrial, trade and hobby use. 50 gram tube.

- Prevents normally closed switches from corroding in place.
- Reduces make-break arcing and pitting of switch contact surfaces
- Improves the connection between irregular or pitted contact surfaces
- Reduces EMI noise by maintaining a continuous path between conductive surfaces
- Thermally stable up to 200°C
- Density: 2.7 g/ml
- Electrical resistivity: 117 ohms/cm



See page 171
for Heatsink
Compound

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
50g	NA-1034	\$9.95	\$8.75	\$7.75

Precision Conductive Ink

This is a highly conductive polymer for use in a variety of applications and is an indispensable tool for fixing damaged circuit board tracks. Apply instant traces on most surfaces (epoxy, glass, plastic, metal). Draw traces on circuit boards, repair defective traces, make jumpers and shield electronics, design prototype circuits and repair rear-window heater traces.

- 1mm track trace width
- 0.02 Ohm per mm resistivity



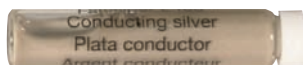
After heat curing only. Use low temperature soldering (less than 180°C/350°F) for not more than 5 seconds. Use low temperature soldering iron.

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NS-3033	\$39.95	\$35.95	\$31.95

Silver Conductive Varnish

This silver conductive varnish adheres well to glass, PCB material, ceramics etc. Repairs printed circuits, window antennas, window alarm loops etc. Very good conducting properties.

- Approximately 0.02 - 0.1 Ohms/cm².



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NS-3030	\$13.95	\$12.55	\$11.15

CLEANING PRODUCTS

Isopropyl Alcohol Cleaning Pads

Removes contaminants from metal, plastic & painted surfaces.

- Also ideal for cleaning computers
- Packet of 10.



⬆	Cat.	Qty 1+	Qty 4+	Qty 10+
Pkt 10	NA-1060	\$4.95	\$4.45	\$3.90

Deoxit ProGold Contact Cleaner & Rejuvenator

Simple cleaners wash away dirt, grime, and dust from your expensive equipment but are often ineffective at cleaning tough oxidation and metal sulphide contamination. This product will not only clean, but it will help restore your equipment to its original condition, improving its performance.

- Kit contains:
DeoxIT power booster 7.4ml
DeoxIT ProGold conditioning treatment 7.4ml
2 x brush applicators
4 x swabs
Lint free cloth



⬆	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Aerosol	NS-1434	\$29.95	\$26.95	\$23.95
Kit	NS-1436	\$29.95	\$26.95	\$23.95

Inox Premium Grade Machinery Grease

General-purpose synthetic grease in a handy 30gm tube size. Ideal for bearings, ball joints, chains, sprockets, O-rings, bushes & other rubber and plastic etc.

- Food grade
- High temperature, non-melt
- Highly resistant to water, salt, chemicals and drying
- Fully synthetic



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
30g	NA-1032	\$9.95	\$8.75	\$7.75

ANTI-CORROSION

Tef-Gel Anti-Corrosion, Anti-Siezing, Anti-Galling Syringe

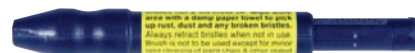


This product is far superior to a similar product we sold last year. Its main use is to prevent dissimilar metals when fastened together from corroding due to galvanic action. For example, you fasten down a stainless steel sail track slide to the metal deck of a yacht; you use this product to prevent dissimilar metal electrolytic corrosion. That's all the other product was good for. This product also stops rotating objects from seizing and prevents galling in stainless steel screw fasteners. It also protects electrical terminals/connectors.

- Will not cold flow or dry out
- Is resistant to salt water and detergents
- Has an indefinite shelf life
- Contains PTFE (Teflon®) and NO (0%) volatile solvents, no silicone, or petroleum solvents. Nothing to evaporate
- It is dielectric (Non-electrical conducting)
- No known hazardous ingredients
- High flashpoint
- Non toxic

↑	Cat.	Qty 1+	Qty 4+
10ml	NA-1040	\$24.95	\$22.45

Corrosion Buster Pen



This pen-type product enables you to remove rust, spot corrosion and clean burnt contacts etc, without abrasion utilising the 20,000 tiny glass fibres at the tip of the pen. It has an amply sized body with finger indent to provide a comfortable & secure grip while the adjustable length allows for more aggressive cleaning when required.

- 120mm long x 14mm dia.

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	NA-1410	\$24.95	\$22.45	\$19.95

MOTORS

Standard DC Motors

THESE ARE NOT TOY MOTORS

Each motor briefly described below is a quality product with hardened drive shaft, sintered bearings and quality commutator brushes etc. They are ideal for any application where a compact high torque and reliable motor is required. Each motor is provided with a full data sheet which includes motor speed/torque/current/efficiency curves etc. Generous discounts for quantity purchases.

- 2.3mm driveshaft
- M2.6 threaded mounting
- Generously ventilated
- Solder tag terminals

YM-2718



	YM-2712	YM-2716	YM-2718
VOLTAGE (V)	6	12	12
NO LOAD			
Speed (rpm)	16,200	14,500	14,600
Current (A)	0.55	0.28	0.67
AT STALL			
Torque (g.cm)	185	520	2,500
Current (A)	5.6	4.3	18
AT MAX EFFICIENCY			
Efficiency (%)	49.6	66.1	55.1
Power (W)	5.96	5.56	26.5
Speed (rpm)	11,000	10,950	10,850
Torque (g.cm)	80	100	252
Current (A)	2	1.5	4.5
AT MAX POWER			
Speed (rpm)	9,000	8,100	6,500
Torque (g.cm)	80	180	1,300
Current (A)	2.6	2.4	8.0
DIMENSIONS (mm)			
Diameter	27.6	27.6	35.8
Total length	51	57	71
Shaft Length	12.5	13	9.5
Shaft dia	2.3	2.3	3.175
Mounting thread dia	2.6	2.6	3

↑	RPM	Volt	Cat	Qty 1+	Qty 5+	Qty 10+
	16,200	6	YM-2712	\$8.50	\$7.50	\$6.75
	14,500	12	YM-2716	\$9.95	\$8.75	\$7.75
	14,600	12	YM-2718	\$14.95	\$13.35	\$11.70

Hobby Motors

Two models available. Ideal for hobbyist, experimenters, robotics and as replacements.

Cat.	YM-2706	YM-2707
Torque	Low	Medium
Operating volts	1.5-4.5V	1.5-4.5V
Nominal volts	3V	4.5V
Speed (no load)	12000rpm	12500rpm
Current (no load)	0.28A	0.25A
Speed (max eff)	8540rpm	9560rpm
Current (max eff)	0.69A	0.81A
Torque (max eff)	7.94gcm	17.86gcm
Diameter	20mm	23.6mm
Total length	25mm	25mm
Shaft length	8.1mm	6.5mm
Shaft dia	2mm	2mm

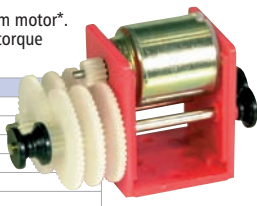


↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Low	YM-2706	\$3.50	\$3.15	\$2.75
Medium	YM-2707	\$4.95	\$4.45	\$3.90

Low Cost Motor / Gearbox Set

This unit comes complete with a 3V 12,000 rpm motor*. It can be stepped down (with the consequent torque multiplication) up to six times as follows:

Specifications	RPM
12,000 x 12/48	3,000
3,000 x 12/48	750
750 x 12/48	187.5
187.5 x 12/48	46.875
46.875 x 12/48	11.72
11.72 x 12/48	2.93



The motor is fitted with a 12 tooth pinion and the small gear cluster is 12 tooth. The large clusters are all 48 tooth. Not all gears need to be used. The intermediate output shafts are hardened steel, 3mm dia. Also supplied are press fit pulleys. The whole assembly snaps together. Hand tools are almost unnecessary.

*Motor can also be varied by changing input voltage but this lowers torque. Motor cage - 40H x 25W x 28Dmm / Gearbox cluster - 40(W) x 25(D) x 30(H)mm Main & intermediate shafts - 63 x 3mm Dia. Supplied in kit form.

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2730	\$12.95	\$11.35	\$10.35

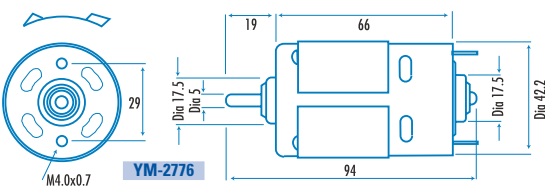
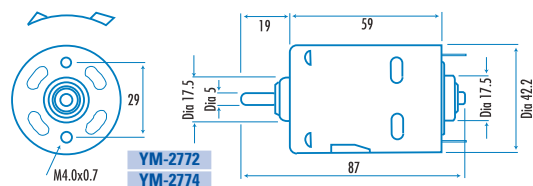
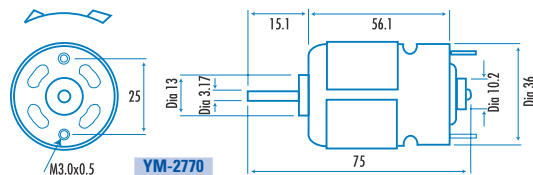
Standard (High Power) DC Motors

Astonishing speed and power from these compact ferrite magnet type DC motors. All units feature hard steel drive shafts, long life design and are built in an ISO 9002 quality environment.

YM-2774



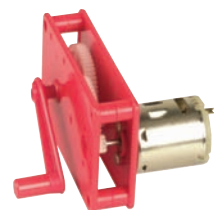
	YM-2770	YM-2772	YM-2774	YM-2776
VOLTAGE (V)	12	6	12	12
NO LOAD				
Speed (rpm)	11,800	20,000	18,800	9,700
Current (A)	0.8	4.0	2.6	1.3
Operating range (V)	6-12	3-6	6-12	6-18
AT STALL				
Torque (g.cm)	2700	1910	4900	6000
Current (A)	26	67	92	57
AT MAX EFFICIENCY				
Efficiency (%)	76	57	71	73
Power (W)	43	45	107	52
Speed (rpm)	9800	13730	15520	8490
Torque (g.cm)	420	320	670	600
Current (A)	4.7	13.5	12.8	6.0
DIMENSIONS (mm)				
Diameter	36	42	42	42
Total length	75	87	87	94
Shaft length	15	19	19	19
Shaft diameter	3.17	5.0	5.0	5.0
Mounting thread	M3	M4	M4	M4



↑	RPM	Volt	Cat	Qty 1+	Qty 5+	Qty 10+
	11,800	12	YM-2770	\$12.95	\$11.35	\$10.35
	20,000	6	YM-2772	\$18.95	\$17.05	\$15.15
	18,800	12	YM-2774	\$17.95	\$15.95	\$14.35
	9,700	12	YM-2776	\$17.95	\$15.95	\$14.35

Hand Crank Dynamo with Geared Motor

Here's a great gadget that will allow you to add Green power to any of your projects. What we have here is a hand crank dynamo, pre-assembled but easily modified to be retro-fitted to existing equipment or added to new projects. Crank the handle and the specially designed gear set will operate the motor and produce a DC voltage which can be used for a variety of low current uses (charging batteries, lights etc). Crank slowly and the voltage is low, crank harder and the voltage is higher. Made from plastic so it is easy to re-work to fit your projects.



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	MD-7000	\$19.95	\$17.95	\$15.95

MOTORS (CONTINUED)

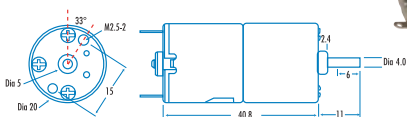
12V DC Reversible Gearhead Motors

The motors work equally well in forward or reverse motion. More specifications available on our website.

	YG-2732	YG-2734	YG-2738
Torque g.cm	2100	12,000	50,000 @ 55rpm
Rated Voltage (Volts)	12.0V	12.0V	12.0V
Operating (Volts)	4.5 - 18Vmax	4.5 - 18Vmax	6 - 12Vmax
Current - no load (mA)	30	70	<450mA
Current - full load (mA)	390	1380	14000
Gear ratio	82:1	244:1	50:1
Shaft speed (rpm)	70	36	160

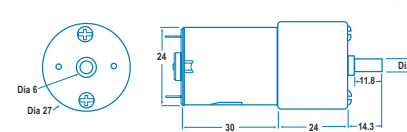
YG-2732

This compact unit will give a massive 2.1 kg.cm of torque at 70RPM. Current draw rises to a modest 390mA.



YG-2734

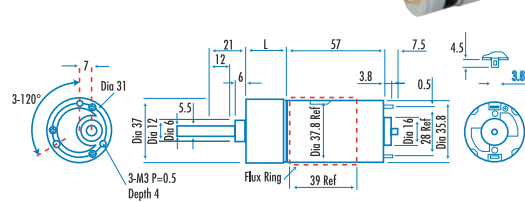
Only slightly larger than the unit above, but with a massive increase in torque at 36RPM. Ideal for driving wheels or other traction devices.



YG-2738

For heavy duty applications. Massive 50kgs torque at 55RPM

- Specifications may vary



↑ RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
70	12	YG-2732	\$14.95	\$13.35	\$11.70
36	12	YG-2734	\$23.95	\$21.35	\$18.95
55	12	YG-2738	\$43.95	\$38.45	\$34.95

TECH TALK!

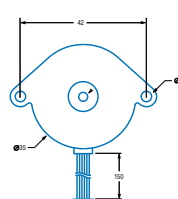
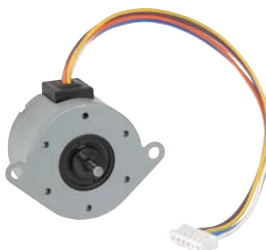
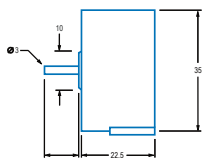
GEARBOX SPEEDS

Note: All DC motors and motor gearboxes can change speed to a considerable amount by changing voltage within specified limits. This reduces need for special gear ratios for your application.

12VDC 48 Step / 7.5° Stepper Motor

Standard 48 step / 7.5° design, with flange mount 3.0mm hardened steel shaft. Suitable for object control, numerical control etc..

Specifications	YM-2754
Rated voltage	12VDC
Rated current	1.1A/phase
Phases	4
Steps per revolution	48
Stepping angle	7.5°
Drive method	Unipolar chopper drive
Resistance per winding	20 ohms
Starting frequency	600pps (max)
Holding torque	700g.cm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2754	\$24.95	\$22.35	\$19.70

SERVO

Arduino Compatible 9G Micro Servo Motor

Micro servo motor, perfect for use with XC-4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm



See page 93 for Pan and Tilt Bracket to suit

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2758	\$9.95	\$8.75	\$7.75

Mini Servo 4.8V-6V

Mini sized servo perfect for remote control or robotics applications where size is at a premium.

Specifications	YM-2760
Dimensions	35(L) x 16.9(W) x 32(H)mm
Weight	26g
Torque 4.8V	3400g.cm
Transit Time 4.8V	0.19 sec/60°
Torque 6V	4200g.cm
Transit Time 6V	0.15 sec/60°



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2760	\$19.95	\$17.70	\$15.70

Servo Motor - Standard 6V with Metal Gear - 13kg.cm

These metal gear servos are an excellent replacement for the standard servos commonly used in all 1:10 and many 1:18 scale remote control cars, or for use in any number of robotics applications. They feature digital control and super-tough metal gear construction with very high torque and super-quick rotational speeds. Perfect for the steering servo on an off-road truck or buggy where precise control and strength are needed.

- High speed and high torque digital servos
- Dual ball bearing
- Metal gears for maximum strength and durability
- Operating Voltage: 4.8-7.2V
- Connector wire: 32cm
- Includes control horns and screw set
- Weight: 55g
- 40.7 x 19.7 x 42.9mm (standard servo size)



OPERATING SPEED 4.8V: 0.25 SEC/60° Cat. YM-2763
OPERATING SPEED 4.8V: 0.20 SEC/60° Cat. YM-2765

↑	Cat.	Qty 1+	Qty 5+	Qty 10+	
	Torque 4.8V 13kg.cm	YM-2763	\$34.95	\$31.45	\$27.90
	Torque 4.8V 11kg.cm	YM-2765	\$34.95	\$31.45	\$27.90

SOLENOIDS

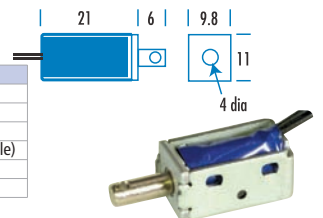
Range of DC & AC solenoids and actuators. Made to our factory specifications. You can safely design them in knowing that they will be available over the long term. Generous quantity discounts. See website for datasheets.



Ultra Miniature 12V

Small square frame unit, Pull type.

Specifications	SS-0900
Coil resistance	131Ω
	10 watt (max)
Pulling force	20 - 160g (25% duty cycle)
Stroke	0.5 - 4.0mm (25% duty cycle)
Total weight	10g
Plunger weight	2g



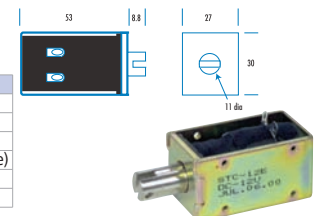
Full data supplied with unit

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0900	\$13.95	\$12.35	\$10.95

Standard 12V

Regular size square frame unit, Pull type, solder tip.

Specifications	SS-0902
Coil resistance	24Ω
Rated power	6 watt
Pulling force	200g-2kg (25% duty cycle)
Stroke	2.0 - 12mm (25% duty cycle)
Total weight	205g
Plunger weight	39g



Full data supplied with unit

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0902	\$27.95	\$24.95	\$22.35

PROJECTS & LEARNING

SOLENOIDS & TRANSMISSION COMPONENTS

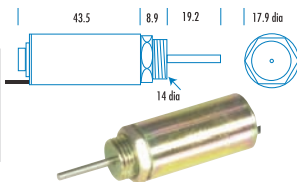
SOLENOIDS (CONTINUED)

Tubular 12V

Compact size, Push type.

Specifications	SS-0903
Coil resistance	25.6Ω
Pulling force	20 watt @ 25% duty cycle 220 - 940g (25% duty cycle)
Stroke	1.0 - 6.0mm (25% duty cycle)
Total weight	81g

Full data supplied with unit

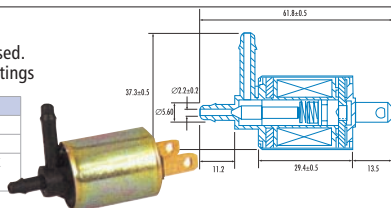


	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0903	\$27.95	\$24.95	\$22.35

12VDC Solenoid Valve

Air valve solenoid, normally closed.
Standard 1/4" Barb type hose fittings

Specifications	SS-0905
Operating voltage	12VDC
Operating current	350mA
Air Leakage	1cc/min max at 4 PSI



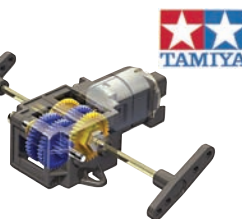
	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0905	\$19.95	\$17.95	\$15.95

TAMIYA POWER TRANSMISSION COMPONENTS

Single Motor 4 Speed Gearbox / Axle Assembly

This brand-new Tamiya product features an all plastic moulded gearbox and motor casing. Included is a FA-30 type 3 volt electric motor, axle with 2 crank arm and tube of grease.

These gear ratios are user selectable:
12.7:1 114.7:1
38.2:1 344.2:1

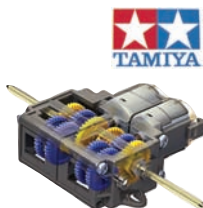


	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	YG-2740	\$18.95	\$16.95	\$14.95

Double Motor Independent 4 Speed Gearbox / Axle Assembly

Basically a double version of the unit above. Each motor can be separately driven and therefore when wheels are connected could rotate on the spot. Each gearbox is independent so it is possible to set different gear ratios for each box. Includes 2 x FA-30 type 3 volt motors.

The following gear ratios are user selectable:
12.7:1 38.2:1
114.7:1 344.2:1

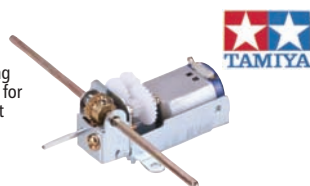


	Cat.	Qty 1+	Qty 5+	Qty 10+
Double	YG-2741	\$23.95	\$21.35	\$18.95

2 Shaft Universal Motor / Gearbox Set

This gearbox has a main output shaft exiting either side of the gearbox (to drive wheels, for example) and another single-ended shaft at 90° to the former. The gear set can be configured to give 3 set speeds.

- Metal chassis, includes motor.



	Cat.	Qty 1+	Qty 5+	Qty 10+
Universal	YG-2742	\$18.95	\$16.95	\$14.95

CHARGER LEADS FOR RC VEHICLES & TOYS

2mm Male & Female Gold Connector Charger Leads

A range of charger, power and test cables with banana plugs, alligator clips and JST connectors, commonly used for toys, robotics, models, remote control hobby. Supplied with one red and one black quick connect 2mm wire set. Ideally used in battery packs or any other applications where good connection is required but can be easily and quickly removed.

- 1 x 2mm female gold connector, 20AWG silicone wire
- 1 x 2mm male gold connector, 20AWG silicone wire
- Both approximately 100(L)mm each



	Cat.	Qty 1+	Qty 10+	Qty 50+
	WC-6018	\$4.95	\$4.45	\$3.90

MECHANICAL COMPONENTS FOR DRIVE TRAINS

Pulley Set

This set would typically be used to transfer power in small energy systems. Set includes 2 x each 50 & 25mm pulleys, 2 x 11mm pulleys, bushings, screws, nuts and 1 metre of rubber drive band. This type of system will absorb transmission shock.



	Cat.	Qty 1+	Qty 5+	Qty 10+
Large	YG-2869	\$12.95	\$11.35	\$10.35

Aluminium Hub with Set Screws

This device will accept a 6.35mm (1/4") shaft, set screw fixed, and connect to the flat face of a gear, typically the flat side of the larger 48 pitch gears.

- Coupling from the gear to the hub by 4 x set screws provided. This enables a motor to be securely fastened to a driving gear.
- Hub 7/8" (22.5mm) dia.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2784	\$8.95	\$7.95	\$6.95

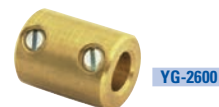
POWER TRANSMISSION COMPONENTS

GERMAN MADE. These precision engineered components are a delight to play with. They offer solutions to small power transmission problems. We make no apologies for the price because well, they are German and they are magnificent quality.

Solid Shaft Couplers (Female)

Machining from solid brass stock – 16mm long, 12mm diameter. Type I will connect 2 shafts on a common axis. Type II will reduce from 6.0 diameter to 4.0 diameter.

- Shaft fixed with grub screws.



TYPE I Cat. YG-2600
TYPE II Cat. YG-2602

	Cat.	Qty 1+	Qty 5+	Qty 10+
Type I	YG-2600	\$9.95	\$8.75	\$7.75
Type II	YG-2602	\$9.95	\$8.75	\$7.75

Gear Set & Spur Gear Set

Gear set contains one pinion gear and two different sizes of radio gears.
Spur gear set contains three different spur gears.



	Cat.	Qty 1+	Qty 5+	Qty 10+
Gear Set	YG-2630	\$9.95	\$8.75	\$7.75
Spur Set	YG-2632	\$8.95	\$7.95	\$6.95

Worm Drive Set

This set consists of a worm gear 24mm long x 12mm dia with an 8 turn worm screw. The worm has a 2.8mm axle hole which could probably be carefully drilled out to a larger diameter.

The spur gear is 1/4" (6.35 wide) and 1 & 5/8" (41.2mm) diameter with a number of regular pitch-concentric 2.8mm holes across the face of the gear including one dead centre.

It would be drilled out to accommodate a larger shaft. This gear has 40 teeth. Both are moulded in an engineering grade plastic.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2736	\$9.95	\$8.75	\$7.75

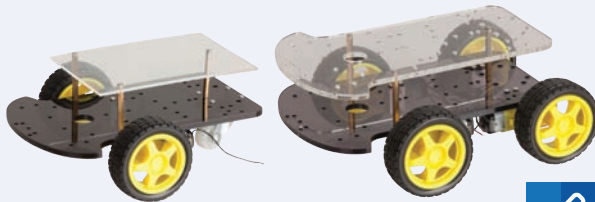
CHASSIS KITS

2 or 4 Wheel Drive Motor Chassis Robotics Kit

These two kits make creating your own robot easier than ever. Available in 2WD and 4WD versions; each kit includes motors, wheels, tyres and two pre-drilled mounting plates. These kits are ideal for an Arduino or pcDuino robotics project.

- Pre-Drilled mounting plates.
- One motor + gearbox per wheel
- Motor voltage: 5-10VDC
- Dimensions:

KR-3160 2WD: 215(L) x 160(W) x 100(H)mm
KR-3162 4WD: 240(L) x 160(W) x 100(H)mm



KR-3160

KR-3162



DIY

Note: Accessories not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
2 Wheel	KR-3160	\$39.95	\$35.95	\$31.95
4 Wheel	KR-3162	\$49.95	\$44.95	\$39.95

DC Geared Motor with Rubber Wheel

DC geared motor with rubber wheel suitable for your Arduino® vehicle based/robotics applications. Also a suitable replacement for the 2WD (KR-3160) and 4WD (KR-3162) car chassis.

- DC motor: Working voltage 5-10VDC
- Gear ratio: 48:1
- 1 x plastic tyre wheel
- 1 DC Gear Motor
- Bi axial can match speed encoder
- Convenient speed measurement
- Dimensions: 66(Dia.) x 28(W)mm

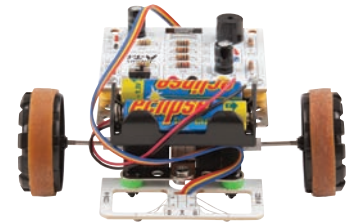


	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2900	\$9.95	\$8.75	\$7.75

ROBOT CONSTRUCTION KITS

PC Programmable Line Tracer Kit

An educational introduction to the world of robotics and programming. Assemble the kit and you are able to use it in two main ways, programming mode or line tracing mode. With the supplied software you are able to program instructions into the robot to navigate its way across the floor. In line tracing mode, simply draw a line on some paper with a thick black marker and the robot will follow the course. It accomplishes this with two optical sensors, somewhat similar to a common garden bug.



- Assembly time: 2 hours
- Requires: Box cutters, phillips head screwdriver (no.2 size), long nose pliers (TH-1887)
- Requires 2 x AA batteries
- Software is compatible with Windows XP, Vista, and Windows 7 (Vista users may need to run the software in WinXP Service pack 2 compatibility mode)
- Recommended for ages 12+
- Dimensions: 120(L) x 64(W) x 55(H)mm



DIY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8906	\$44.95	\$40.45	\$35.95

Hydraulic Robot Arm Kit

This Robot arm has no motors and does not require any batteries as it relies on hydraulics to do all the work! Use it to command 6 axis of varied movement. Use either the gripper or the suction cup to lift items up to 50g. It also incorporates a built in braking system!



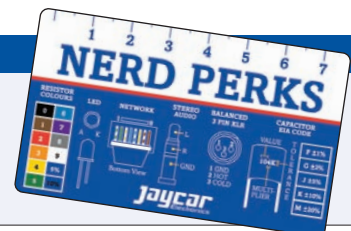
Specifications	KJ-8997
Gripper Opening	45mm
Wrist Mobility	98°
Elbow Range	44°
Base Rotation	270°
Shoulder Motion	45°
Vertical Reach	400mm
Horizontal Reach	300mm
Base Diameter	100mm
Arm Length	260mm
Shoulder Height	190mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8997	\$59.95	\$53.95	\$47.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



Workbench sent to us by: John Jaycar Store: Mona Vale

This is my son soldering a Jaycar kit on the kitchen table.



For more details, visit:
www.jaycar.com.au/workbench



ROBOTIC CONSTRUCTION KITS (CONTINUED)

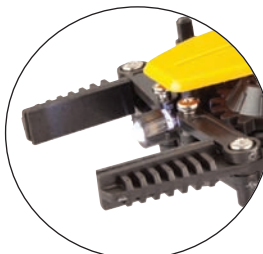
Robot Arm Kit with Controller



This arm is a must for budding robot enthusiasts and operates just like the real thing. It is capable of 5 separate movements and can easily perform complex tasks. Individual control is available for opening and closing the illuminated gripper plus control of wrist, shoulder, elbow and base rotation. The arm is supplied as a kit of parts and makes an excellent project for anyone interested in robotic construction and basic electrical connections.

- Suitable for ages 12+

Specifications	KJ-8916
Max lift capacity	100g
Gripper opening	43mm
Maximum reach	320mm
Wrist movement	120°
Elbow movement	300°
Shoulder movement	180°
Base rotation	270°
Requires	4 x D cells
Base dimensions	225(L) x 160(W) x 40(H)mm



USB INTERFACE KIT FOR KJ-8916

Add computer control via USB to your Robotic Arm. The kit includes everything you need - interface cable, pre-built PCB, enclosure and software for controlling function. You can use a keyboard or mouse to have real-time control of the robotic arm, or you can program, edit and load individual functions and movements, just like a real industrial robot. The commands are saved just like a normal computer file to be loaded and used later.



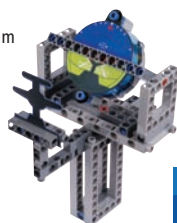
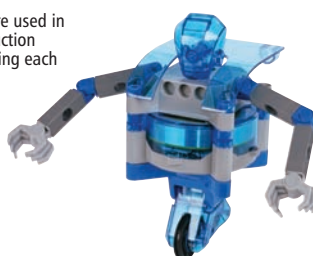
↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Robot Arm with Controller	KJ-8916	\$69.95	\$62.95	\$55.95
USB Interface Kit	KJ-8917	\$49.95	\$44.95	\$39.95

Gyro Robot - 7 Experiments

Learn about Gyroscopes and how they are used in the real world. The included colour instruction manual has LEGO® like instructions, making each of the seven projects very easy to build:

- Robo Gyro
- Gyro Compass
- Gyrorector
- Segway
- Rope Walker
- Balance Game
- Flight Simulator

- Requires 3 x AAA batteries
- Suitable for ages: 7+
- Gyro Robot Dimensions: 100(W) x 150(H) x 100(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8957	\$59.95	\$53.95	\$47.95

FIND OUT MORE IN STORE

**Our staff offer friendly and helpful service.
We're here to help.**

3 in 1 All Terrain Tracked Robot



There are a lot of parts to assemble in this kit, including the hard-wire remote control. You do, however end up with a fantastic piece of robotic gear. It is primarily a terrestrial 6 track (i.e. 3 separate tractor-crawlers each side) unit. The crawlers can be reconfigured to operate as grippers, or even as a forklift type mechanism. You will need lots of time to put this thing together, but it will be a pleasure as the 50 page instruction manual is superb with dozens of good old-fashioned line drawings, which are still the best for clarity. There is very little electronics (indeed none really) but a tremendous amount of mechanical assembly. Electric motors are included.

This kit could form the basis of a sophisticated robotic platform with the addition of feedback systems, much of which is in the Jaycar catalogue.

- It would make a fabulous gift for a very bright 13+ year old
- Batteries AA x 4 are extra
- Carton dimensions 40(W) x 30(D) x 90(L)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8918	\$59.95	\$53.95	\$47.95

MONTHLY SPECIALS

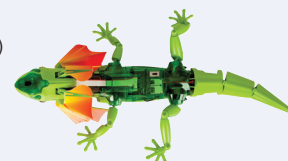
Look out for our monthly promotions in store now!

Frilled Lizard Robot Kit with IR Sensor



A super smart frilled lizard with artificial intelligence. It has an infrared sensor that is programmed to 'escape' or 'follow-me'. Once the infrared sensor is activated in the 'escape' mode the robot will automatically act shocked by spreading its frill, dropping its jaw, illuminates its bicolor LED eyes and will scamper away from you until it reaches a safe place. If the infrared sensor is switched to the 'follow-me' mode using the 2 way function switch, then the robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard.

- Interactive artificial intelligence (AI)
- Two funway modes
- Infrared sensor
- LED illuminated eyes
- Requires 4 x AAA batteries
- Dimensions: 370mm long
- Suitable for ages 10+



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8968	\$49.95	\$44.95	\$39.95

ELECTRONIC & ELECTRICAL PROJECTS FOR KIDS

These kits allow children 6 years and older to learn about electronics whilst having fun. All of the brightly coloured parts simply snap together without any need for screws or soldering. The parts can be easily taken apart to be reused for other experiments over and over again.

Electronic Project Snap-on Kit with 80 Experiments

Features 80 projects which demonstrate various theories of electronics. A great educational tool for primary age school students that will stimulate their neural pathways as they read and construct an array of devices that use circuits, switches, electric motors, LEDs and more. Some of the projects include magnets or switch controlled electric fans, switch controlled LEDs, switching multi-directional electric motor, sound effect machine that will output machine gun fire, police car siren and much more.

- Learn whilst building over 80 electronic experiments
- Requires 2 x AA batteries
- Package dimensions: 265(L) x 205(W) x 35(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8970	\$24.95	\$22.45	\$19.95

Car & Boat Snap-on Electronic Project Kit with 50 Experiments

Simple snap together project kit allows you to create a car or a boat that will move! Bright colour pieces and no need to screw, or use adhesives. Great little kit for teaching simple electronic principles to eager minds. Projects include magnet controlled lamp or fan, air propelled car, and underwater or air propelled boat.

- Learn whilst building over 50 electronic experiments
- Requires 2 x AA batteries
- Suitable for ages 6+
- Package dimensions: 460(L) x 330(W) x 40(D)mm



↑	Cat.	Qty 1+	Qty 3+
	KJ-8972	\$34.95	\$31.45

Burglar Alarm Snap-on Electronic Project Kit

Create burglar alarms and more. Simply clip the clearly marked and bright coloured pieces together to learn various circuits designs. Some of the projects include anti-theft alarm that fires themed warning sounds when circuit breaks, door/window alarm using a dry reed switch and even a rain alarm.

- Requires 2 x AA batteries



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8974	\$12.95	\$11.35	\$10.35

8-in-1 Snap-on Electronic Project Kit

Various experiments on circuits, motors, switches and more. Some of the projects include lamps and fans in both series and parallel circuit with variable controls; there is also a flying saucer project that really flies.

- Learn whilst building 14 electronic experiments
- Requires 2 x AA batteries



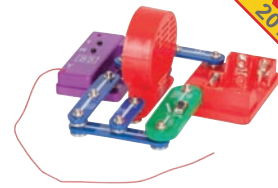
↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8976	\$13.95	\$12.55	\$11.15

- Suitable for ages 6+
- No tools or soldering required
- Powered by AA batteries (Sold separately)
- Include coloured instruction manuals

FM Radio Snap-on Electronic Project Kit

Create a fully functional selectable FM radio with this simple snap on kit.

- Requires 2 x AA batteries



NEW
2016

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8978	\$16.95	\$15.25	\$13.55

Air Heli-Car Snap-on Electronics Project Kit

Build a motorised helicar.

- Requires 2 x AA batteries



NEW
2016

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8980	\$15.95	\$14.35	\$12.75

Air Boat Snap-on Electronic Project Kit

Create air and water propelled boat or an electric fan with this simple snap on kit.

- Requires 2 x AA batteries



NEW
2016

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8982	\$15.95	\$14.35	\$12.75

148-in-1 Snap-on Electronics Project Kit

Build over 148 exciting electrical circuits and devices.

Create and build your own battery operated remote control vehicles including an intelligent robot, light sensing detector, rain warning system, even a fruit quality detector. With over 50 parts and a detailed instruction booklet this kit will be sure to keep the kids entertained for days.

- Requires 4 x AA batteries



NEW
2016

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8986	\$69.95	\$62.95	\$55.95

AUTOMATIC ACCOUNT

For Schools, Government Departments,
Public Companies, Radio & TV Stations

We now have so much data and fact
sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



ELECTRONIC & ELECTRICAL PROJECTS FOR KIDS (CONT)

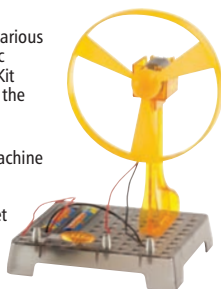
12 in 1 Electrical Experiment Kit

12 different experiments to construct that demonstrate various electronic principles. Learn about static electricity, electric motors, resistors, diodes, lights, solar power and more. Kit included a manual with excellent information describing the theory and history associated with each experiment.

Activities:

- Static Electricity
- Conductors and insulators
- Make a fan
- Resistor
- Diode
- Make a light

- Make a Morse code machine
- Light control alarm
- Make a bell
- Make an electromagnet
- Make a motor
- Solar power cell



- Assembly time for each experiment: Approximately 10 mins
- Requires 2 x AA batteries
- Suitable for ages 8+
- Base dimensions: 120(L) x 99(W) x 23(H)mm

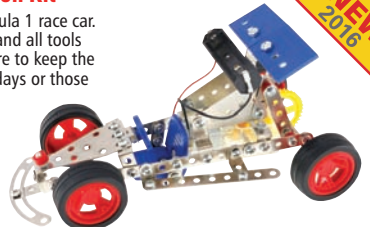


	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8919	\$27.95	\$24.95	\$22.35

Race Car DIY Construction Kit

Build your own mechanical Formula 1 race car. With easy to follow instructions and all tools included, this 185 piece set is sure to keep the kids occupied during school holidays or those rainy days at home.

- Requires 1 x AA battery
- Suitable for ages 9+
- Dimensions: 190(L) x 120(W) x 100(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8990	\$19.95	\$17.95	\$15.95

Bike DIY Construction Kit

Build your own motorised 3 wheeler trike motorbike. With easy to follow instructions and all tools included, this 185 piece set is sure to keep the kids occupied during school holidays or those rainy days at home.

- Requires 1 x AA battery
- Suitable for ages 9+
- Dimensions: 200(L) x 100(W) x 150(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8991	\$14.95	\$13.45	\$11.95

Kit DIY Construction Robot

Build your own motorised retro space robot. With easy to follow instructions and all tools included, this 185 piece set is sure to keep the kids occupied during school holidays or those rainy days at home.

- Requires 1 x AA battery
- Suitable for ages 9+
- Dimensions: 100(L) x 130(W) x 140(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8992	\$19.95	\$17.95	\$15.95

Workbench sent to us by: Jeremy Jaycar Store: Gold Coast

There are two projects I am working on, the first is a biped robot - foreground, this has 32 Jaycar servos, a Carnegie melon university tracking eye camera and PS2 remote control, with digital rate gyros for pitch, roll, yaw & balance control.

The second project is a solar installation for my brothers boat utilizing several relays for switching between shore power/generator and solar/battery.

The space is a corner in my lounge room.

The majority of my electronic components and test equipment is purchased from Jaycar.

Regards Jeremy



For more details, visit: www.jaycar.com.au/workbench

Principles of Electric Current Experiment Kit

A series of experiments with instructions to learn the common principles of electric current and magnetism. Check the magnetic poles of each coil with the compass, use some paper clips, the magnet and enamelled wire to create a spinning motor, or check the flow of current in the circuit by switching the battery thus inverting the current and magnetic field.

- Assembly time: 30 minutes
- Requires 2 x D batteries, scissors, and tape
- Suitable for ages 8+
- Dimensions: 99(L) x 70(W) x 45(H)mm



DIY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8901	\$12.95	\$11.35	\$10.35

CLOCK MAKING

Make Your Own Clock Kit

This educational clock is designed to stimulate your child's curiosity about the concept of time. The brightly coloured parts are easy to assemble and most children will require little or no parental assistance.

- Includes a wind-up pendulum based mechanism
- No batteries required!
- Suitable for ages 6+
- Dimensions: 195(Dia)mm



NEW 2016

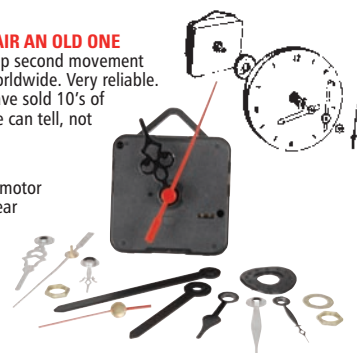
	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8996	\$14.95	\$13.45	\$11.95

Quartz Clock Movement

MAKE A CUSTOM CLOCK OR REPAIR AN OLD ONE

This is a standard hour/minute/sweep second movement found in almost all electric clocks worldwide. Very reliable. Standard nut bushing mount. We have sold 10's of thousands of these and, as far as we can tell, not one has come back.

- Very compact 56 x 56 x 15mm
- Self starting one second stepping motor
- Uses 1 x AA battery that lasts 1 year
- ±15 second/month accuracy
- Supplied with three sets of hands
- Shaft length 19mm, diam. 7.5mm
- Includes sweep second hand.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0100	\$15.95	\$14.35	\$12.70

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Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details

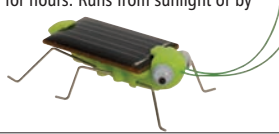


LEARN ABOUT GREEN POWER

Solar Powered Grasshopper Kit

Are your children fascinated with insects? This mini solar powered grasshopper is easy to assemble and will keep them occupied for hours. Runs from sunlight or by a 50W halogen bulb. Small enough to fit in the palm of their hand!

- Suitable for ages 8+
- Dimensions: Approx 40mm long



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3751	\$12.95	\$11.35	\$10.35

6-in-1 Solar Robot

This fantastic DIY kit for the kids is super fun and captures the imagination of the young ones with everyday household material. Build wacky robots out of a coke can, a water bottle or wasted CDs, and even better, all of them can be powered by the sunlight using mini solar panels. A great toy to play, learn, and encourage awareness of the environment.

- 6 robots to build:
- Drummer Robot
 - Flying Bird
 - Walking Robot
 - Street Roller
 - Bottle Yacht
 - CD Racer

- Suitable for ages 10+
- No batteries required (can not included)



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8939	\$12.95	\$11.35	\$10.35

6-in-1 Solar Educational Kit



A brilliant kit for any junior eco-scientist. You can build any one of six different projects from the parts in the kit, then make them work by solar power. No tools, soldering or glue required. All the parts snap together with spring terminals for the wiring. The instructions are excellent with extremely clear and concise illustrations detailing every step. The finished projects are solar powered, but can also be powered by the light from a household 50W halogen light.

- Projects:
- Windmill
 - Dog
 - Airboat
 - Suitable for ages 10+
 - Car
 - Plane
 - Revolving Plane

Thousands Sold!



VIDEO



DIY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ-8926	\$14.95	\$13.45	\$11.95

6 In 1 Solar Educational Robot Kit



A hands on experience in the world of solar power. This kit includes all the parts needed to construct up to six different projects. Choose between a robot, helicopter, plane, windmill, water skier or even a three wheeler! Don't even worry about screws, everything snaps together for easy assembly and its all solar powered so no batteries are required. For the best results, use it in direct sunlight. For cloudy days use a 50W halogen light.

- Suitable for ages 10+

Specifications	KJ-8936
Dimensions (Approx)	
Windmill	185 x 185 x 190mm
Helicopter	234mm
Water skier	140 x 75 x 95mm
Three wheeler	65 x 50 x 60mm
Robot	50 x 85 x 45mm
Plane	185 x 185 x 130mm



VIDEO



DIY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ-8936	\$12.95	\$11.35	\$10.35

"T4" Transforming Solar Powered Robot Kit



The basis of this kit is two moulded 'frames' of component parts reminiscent of a plastic model aeroplane kit - about 50 parts! It also has a small (40 x 25mm) solar panel, a tiny electric motor, gears, pinions, etc. It also includes decals. It can 'transform' between a T-Rex or Rhino beetle with moving legs and jaw, Robot with walking legs and moving wheels, and a futuristic miners drilling machine with moving drilling bit and wheels. You will probably need a small diagonal pliers to cut out and de-flash all the plastic parts from the frame.

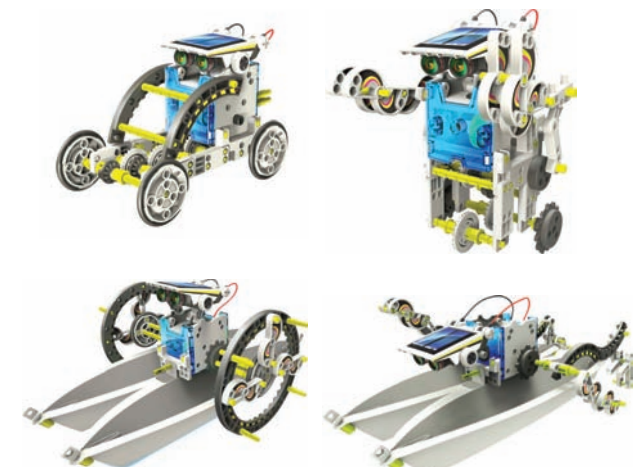
- Robot stands about 100mm tall
- Detailed 34 page assembly manual is also included.
- Suitable for ages 8+



DIY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
4 in 1	KJ-8965	\$24.95	\$22.35	\$19.70

Solar Powered Robot Kit - 14 in 1 Robot Kit



This kit has so many included parts we don't have the time to count them, certainly at least 100 or more. Notable are a solar panel, solar powered electric motor boat hull components, gears etc. This kit can be transformed into 14 different functional robots, some of which admittedly are whimsical, but the kit itself is a fantastic learning experience: Mechanical, educational, scientific & solar physics skills are exercised. Best of all the kit comes with an assembly manual that is LEGO® like in the clarity of description. The manual itself runs to over 80 pages. This kit represents sensational value and is perfect for bright kids 10+ years. (A side cutter is really required to clip all of the parts out of the moulding frames - try TH-1897).

This kit can be assembled into:

- Turtle-bot
- Beetle-bot
- Boat-bot
- Walker-bot
- Dog-bot
- Wheel-bot
- Row-bot
- Roly Poly-bot
- Auto-bot
- Slither-bot
- Surf-bot
- Zombie-bot
- Crab-bot
- Quadro-bot

- Dimensions (Boat - bot): 245(L) x 170(W) x 100(H)mm
- Suitable for ages 10+



DIY

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
14 in 1	KJ-8966	\$49.95	\$44.95	\$39.95

PROJECTS & LEARNING

ROBOT & GREEN POWER KITS

LEARN ABOUT GREEN POWER (CONTINUED)

Hobby Solar Module

Ideal for powering solar projects, hobbies, model solar cars and educational applications. 3 cells per module, rated at 1.5V.

Specifications	ZM-9012
Open circuit voltage	1.5V
Short circuit current	500mA
Dimensions	148(L) x 74(W)mm
Weight	33g



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	ZM-9012	\$19.95	\$18.95	\$17.95

Deluxe Solar Educational Kit

A series of do-it-yourself experiments to acquire the basic knowledge of solar energy. Supplied with a solar panel which incorporates 3 x 1.5V cells for series or parallel connection.

The kit comes complete with:

- Solar cell module with plastic stand
- Musical unit
- Plastic lamp
- Small DC motor with stand
- Wire with motor clips
- 4 jumper wires
- Nuts and plastic spanner
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8, 1, 1.5 and 2 inch
- Plastic fan spinner
- 14 page solar energy booklet explaining the why & hows of solar energy
- Suitable for ages 8+



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-6694	\$29.95	\$26.95	\$23.95

Solar Educational Kit

Experiment with solar energy - the energy source of the future. Our solar educational kit is designed to let you build your own solar models. The kit comes complete with:

- Solar cell module
- Solar energy booklet explaining the why & hows of solar energy
- Small DC motor
- Screws and nuts
- Wire with motor clips
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8", 1", 1.5" and 2"
- Plastic fan spinner
- Suitable for ages 8+



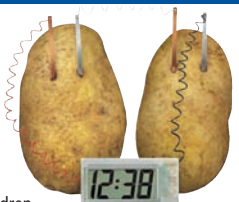
↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-6690	\$18.95	\$16.95	\$14.95

SCIENCE PROJECT KITS

Potato Clock

You can generate enough electricity to run a digital clock by plugging electrodes into common potatoes! An amazing chemical experiment which also works with tomatoes, lemons, apples - even soft drink or beer! All parts (except fruit/veg) supplied including:

- Highly accurate digital clock module
- Metal electrodes, wire
- Instructions and fluid beakers Perfectly safe for children and highly educational. (Do not eat fruit/veg after using as batteries)
- Clock dimensions: 65(W) x 30(H) x 12(D)mm
- Suitable for ages: 10+

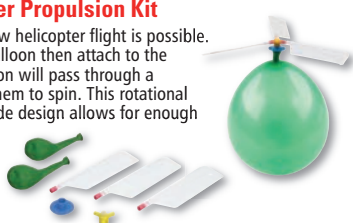


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8937	\$12.95	\$11.35	\$10.35

Balloon Powered Helicopter Propulsion Kit

This simple little kit demonstrates how helicopter flight is possible. Assemble the blades, blow up the balloon then attach to the blade axle and the air from the balloon will pass through a passageway of each blade causing them to spin. This rotational motion, coupled with the angled blade design allows for enough downward force for the kit to fly.

- Assembly time: 43 seconds
- Suitable for ages 5+
- Dimensions: 260(Dia) x 30(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8908	\$5.95	\$5.25	\$4.75

Salt Water Fuel Cell Engine Car Kit

An entertaining educational kit demonstrating the concept of a salt powered automotive engine. It gives the next generation a look at alternative means of propelling cars of the future. It works with a combination of salt water and magnesium plates. When salt water is added it dissolves the magnesium to form hydrogen which is attracted to the cathode creating a flow of electrons. A detailed step by step assembly manual for connecting the myriad of components is included and the car engine can be configured as a V8 or flat engine. The cylinders also move up and down as the car moves forward. The finished vehicle is 4 wheel drive and the body will twist as it navigates its way over small pebbles and bumps. Watch a demonstration video on our website. You may require the use of a side cutter and flat/phillips head screwdrivers.

- Assembly time: 3 hours
- Suitable for ages 8+
- Dimensions: 120(L) x 100(W) x 91(H)mm



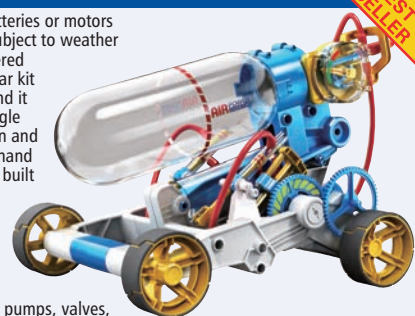
Ramp not included

⬆	Cat.	Qty 1+	Qty 3+	Qty 6+	
	Salt Water Fuel Cell Engine Car Kit	KJ-8960	\$24.95	\$22.35	\$19.70
	Spare Cartridge	KJ-8961	\$6.95	\$6.25	\$5.50

Air Power Engine Car Kit

A green powered car! No batteries or motors required and it is not even subject to weather conditions like its solar powered counterparts. This futuristic car kit operates entirely using air, and it travels up to 80m on one single tank. This kit balances the fun and learning perfectly. A built-in hand pump with pressure meter is built in the car for easy operation and also as an indicator in measuring how volume of air is collected into the tank. Build this fun and educational kit and discover and learn about air pressure, pumps, valves, transfer of energy and green power, all that with the thrill of a speedy car!

- Dimensions: 190(L) x 160(W) x 290(H)mm
- Suitable for ages 10+

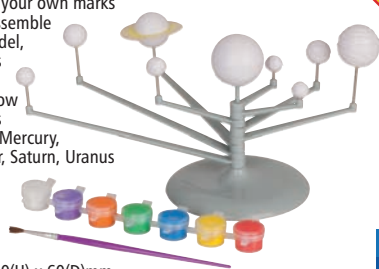


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8967	\$49.95	\$44.95	\$39.95

Planetarium Educational Kit

What better way to learn about our own Solar System than leaving your own marks on each of the planets? Assemble your own planetarium model, paint it and add highlights to create a glow effect. Watch the 30cm model glow in the dark - it's out of this world! Featuring the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (our condolences to Pluto).

- Snap to build, no glue required at all
- Dimensions: 220(L) x 170(H) x 60(D)mm
- Suitable for ages 3+



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8994	\$9.95	\$8.75	\$7.75

A BIT OF FUN

Automated Electronic Bugs

Keep your kids entertained for hours with these small robotic creatures that fit into the palm of their hands! These autonomous, high speed creatures mimic the behavior of an insect. They will run and scurry around on an even floor, table and flat surface. They have the ability to change direction if they hit an obstruction or wall and can also flip upright if they end up on their back. The vibrating motor inside this creature rotates a counterweight and propels the robotic creature forward. A fun and safe way to entertain the kids for hours. They are the perfect collectible robot pet for your kids!

- Assorted Colours
- Dimensions: 45(L) x 17(W)mm
- Batteries included
- Suitable for ages 5+



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Sold Each	YG-2891	\$7.95	\$7.15	\$6.35

MICROSCOPES

Digital Microscope for iPhone® 4/5/6

Unleash your inner scientist! This microscope allows you to observe specimens with a significant level of magnification via your iPhone®. It is very easy-to-use and lightweight enough to carry around on your explorations. Simply place your specimen in the holder or directly under the base of the microscope, then place your iPhone® on the non-slip base to observe the specimen onscreen using your iPhone® camera app. The built-in light illuminates the specimen and the dial on the side allows you to adjust focus. Zoom in on the specimen using your iPhone® camera app's zoom function. Capture your findings as photos and videos and share them. Great for checking out small insects, flowers, or whatever excites your scientific mind!

Compatible for use with iPhone® 4/5/6. Includes 6 specimen holders.

- 6 specimen holders
- Built-in LED light
- Requires 2 x AA batteries (Not Included)
- Dimensions: 200(L) x 108(W) x 35(W)mm

Note: iPhone® not included



NEW
2016



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QC-3195	\$29.95	\$26.95	\$23.95

Microscope with Smartphone Mount

This 41-piece microscope set has everything the budding home-scientist needs. With a wide-angle eyepiece, colour filter, and top and bottom LEDs with adjustable brightness, you can easily look at a strand of hair under 60x/120x/200x magnification. Use your Smartphone on the Smartphone adaptor to capture your experiments. Comes with blank slides, blank labels, cover glasses, collecting vials and tweezers to get you started!

- 360° rotatable eyepiece
- Wide-angle eyepiece
- Top and bottom LED light source with adjustable brightness
- Universal Smartphone adaptor included
- Two light sources for both transparent and non-transparent slides
- Built-in selectable colour filter for contrast enhancement
- Quick and precise focusing mechanism

Smartphone not included



Specifications	QC-3754
Magnification	60x, 120x, 200x
Power	Requires 3 x AAA batteries
Dimensions	240(H) x 130(L) x 130(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
60x, 120x, 200x	QC-3754	\$99.95	\$89.95	\$79.95

5MP USB 2.0 Digital Microscope with Professional Stand

A USB microscope with a simple but incredibly useful stand that allows you to make fine adjustments to the vertical height of the microscope and swivel the scope arm around a 360 degree range. This permits a greater level of viewing accuracy and stability. The microscope can be easily removed for the stand for situations which demand it. On either side of the stand there are two metal holders to lock your object in place and a printed ruler to help you get an approximate feel for the length of objects. The optics built into this microscope are excellent. The sharpness of texture on magnified objects is incredible to look at you will spend hours searching for things to magnify (check out a full resolution 5MP capture on our website).

It comes with a great piece of software for capturing 5MP (2592x1944) res JPGs, BMPs, TIFs or PNGs and 1280x960 pixel AVI files.

Excellent for educational purposes or a myriad of practical applications such as technicians, jewellers, laboratory work, and much more.

Specifications	QC-3199
Image sensor	5MP
Focus range	Manual focus from 10mm to 150mm
Snap shot	Button or software
Shutter speed	1 sec to 1/1000 sec
Still image resolution	2592x1944, 2048x1536, 1600x1200, 1280x960 pixels
Video capture resolution	1280x960
Flicker control	50Hz/60Hz
Light source	8 x LEDs with adjustable brightness
Magnification ratio	10x, 300x (at 5MP res)
Power source	USB
Compatibility	WinXP/Vista/7/8, Mac 10.6-10.8
Bundled software	Microcapture Pro with measurement function
Dimensions	Microscope: 110(L) x 33(Dia)mm, Stand: 165(H) x 165(L) x 118(W)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
10x, 300x	QC-3199	\$179.00	\$160.95	\$142.95

Wi-Fi Digital Microscope with Professional Stand

Observe the microscopic world and capture images, video, or even time lapse video of this strange and interesting realm. This digital microscope can zoom up to 200x enabling intricate views of any object placed underneath it. An adjustable array of 8 LEDs circles the lens to keep subjects well lit while zoom is controlled by rotating the rubber grip lined shaft. Comes with a professional stand which allows a high level of control and stability for viewing subjects. The stand is particularly useful for taking time lapse videos, keeping the microscope steady as bacterial growth is filmed. Two side clips will hold your specimen in place.

It is great to use with Tablets or Smartphones as it allows greater mobility. As long there's a USB power source (just use an iPhone® plugpack) nearby. Battery can last approximately 2 hours between charges.

Overall, a fantastic way to introduce school age students (or adults!) to the world lurking beneath. This can be also used for many practical applications as well including fault finding on circuit boards, Smartphone repair, or by technicians in many fields.

Specifications	QC-3752
Interface	Wi-Fi (802.11b/g/n), up to 10m
Video capture resolution	1280x960, 1024x768, 640x480
Image capture resolution	1280x960, 1024x768, 640x480
Frame range	Max 30fps
Magnification ratio	50x to 200x
Video format	M4V
White balance	Auto
Exposure	Auto
Light source	8 x LEDs with adjustable brightness
Compatibility	Windows XP/Vista/7
Microscope dimensions	142(L) x 38(Dia)mm

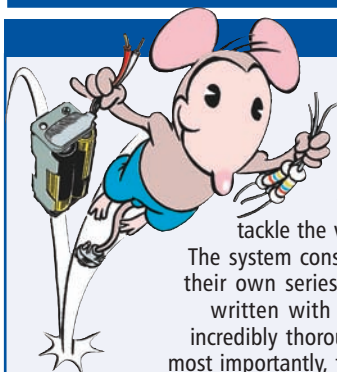


	Cat.	Qty 1+	Qty 4+	Qty 10+
50x, 200x	QC-3752	\$299.00	\$269.00	\$239.00

SHORT CIRCUIT SERIES

LEARNING ELECTRONICS IS FUN!!!

SHORT CIRCUITS - What it's all about...



Since its inception, the Short Circuits learning system has become the preferred platform from which students can confidently tackle the various levels of modern electronics. The system consists of the Short Circuits books and their own series of construction projects. Although written with beginners in mind, the books are incredibly thorough without being intimidating and most importantly, they're written with an emphasis on FUN! All books in the series are geared towards specific levels of electronics knowledge.



Short Circuits Vol 1 acts as an introduction to electronics, absolutely NO previous knowledge of electronics is needed! Short Circuits Vol 2 assumes the reader/constructor has knowledge up to the end of Short Circuits Vol 1. It contains over 20 exciting projects and introduces the novice to soldering etc. Short Circuits Vol 3 extends the

concept. After completing Volume 3, there would be no reason why the constructor couldn't tackle virtually any construction project they desire! All books are lavishly illustrated and collectively boast over 70 exciting projects; each project logically follows from the previous one so while having enormous fun for the constructors knowledge is steadily progressing without mysterious gaps.

The operation of each project is fully described, along with full descriptions of the components you will encounter along the way. To maximise the fun and acquisition of learning, constructors are also shown how to modify and experiment with component changes and how they will change the performance of the project. Explanations of all technical terms are given in plain English - the books are a great read themselves.

FREE downloadable Short Circuits Books
now available from our website
www.jaycar.com.au/short-circuits

Short Circuits Volume 1 SECOND EDITION

NERD
PERKS
2x
POINTS



Our first book in the series uses a learning system designed around a baseboard, which you use to mount their projects. All components are connected together by our exclusive spring terminals. They are extremely easy to use, and don't even require a screwdriver.

At the back of the book is a paper template for each project, which attach to the baseboard. The springs are then inserted into the baseboard according to the locations shown on the template. The template then shows EXACTLY where each component goes, making project success almost a certainty.

The projects are fun to build and, more importantly, are very relevant to today's electronics. Each of the 20+ projects is powered from batteries and requires absolutely no soldering, making this learning system safe for ages 8+.

- Soft cover - 96 pages
- 205 x 275mm



Qty 1 +
Cat. BJ-8502 \$9.95

Short Circuits Volume 2

NERD
PERKS
2x
POINTS



Once constructors have the basic skills and knowledge either from a School Design and Technology course, or tackling Short Circuits Vol 1, you can now have some real fun! With this book (and associated project packs available separately - see following pages) they can make such things as a mini strobe light, police siren, mini organ, a couple of powerful radio transmitters, an FM radio - even a 'Knight Rider' scanner!!

All components are fully described and explained, along with tutorials on soldering iron and multimeter use. All projects are safe and battery powered.

- Soft cover - full colour 148 pages
- 205 x 275mm



Qty 1 +
Cat. BJ-8504 \$12.95

Short Circuits by



Short Circuits Volume 3 SECOND EDITION

NERD
PERKS
2x
POINTS



This is the definitive electronics training manual and is far more than the weekend "fun-type", superficial approach to electronics. This volume presents more than 30 individual printed circuit board-based construction projects.

Naturally, soldering techniques are discussed in detail, as is the proper use of a digital multimeter. We describe projects that take from just 20 minutes to make (such as project 2, Ding Dong Doorbell), to a fully fledged Guitar Sustain which may take several hours to complete, but will give constructors an accessory that can last a lifetime.

Each project contains a full technical description, with experimental changes to each circuit also explained. After constructors have built any or all of the described projects, there is no reason why they would not be able to successfully tackle any of the construction projects published in the electronics magazines. This book will end up giving them the knowledge and skill that will elevate them into a fully fledged constructor!

- Soft cover - full colour 128 pages
- 205 x 275mm

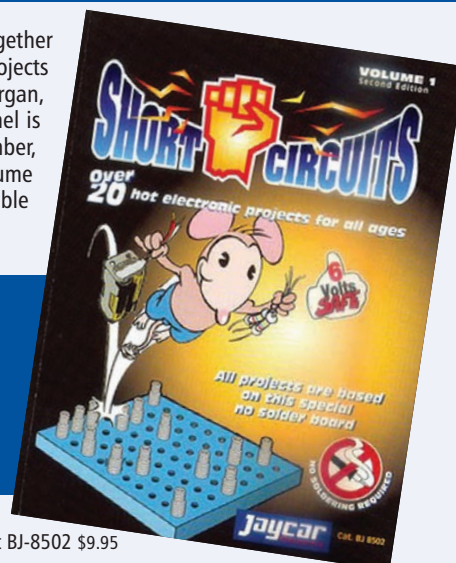


Qty 1 +
Cat. BJ-8505 \$14.95

SHORT CIRCUITS VOLUME 1 - SECOND EDITION

With Short Circuits Volume 1, we give the option of buying the book on its own, or together with the accompanying kit that contains the components for each of the 20-odd projects described in the book. Some of the exciting projects include a Police Siren, Electronic Organ, Sound Effects Unit, Light Chaser and a Solar Powered Radio (an inexpensive solar panel is optional and available separately). Of course, many more projects are included! Remember, no prior knowledge of electronics is needed and the projects are totally safe. This volume will teach constructors everything they need to get started in electronics and is suitable for ages 8+. Kits contain small parts.

- Circuit diagrams included for each project
- Safe 6 volt system
- Techtalk discusses circuit operation and is written in a clear, easy to understand language
- Component layout on the special breadboard is clearly illustrated for each project
- Fun characters introduce each project, explaining the projects use



Some of the exciting projects that you can build from this book include:

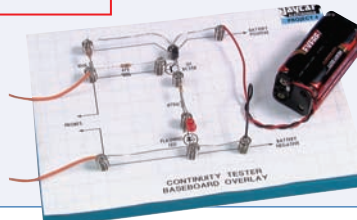
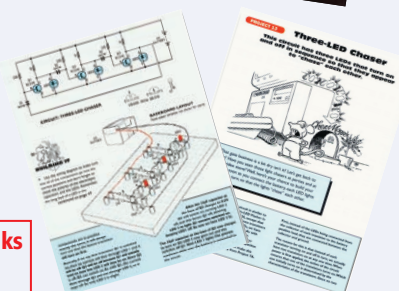
- SHORT CIRCUIT TESTER
- MAGIC EYE LIGHT ALARM
- POLICE SIREN
- ELECTRONIC ORGAN
- SOUND EFFECTS UNIT
- LIGHT CHASER
- SOLAR POWERED RADIO
- 3 TYPES OF TRANSISTOR AMPS
- COMPUTER TYPE CIRCUITS
- AND MANY MANY MORE



FREE downloadable Short Circuits Books
now available from our website
www.jaycar.com.au/short-circuits



No prior knowledge of electronics needed



Short Circuits Book

This full colour 96 page book, which measures 205mm x 275mm is lavishly illustrated with over 100 drawings and diagrams. Each project features components which are "state of the art". The projects are fun to build but perhaps more importantly, are relevant to the electronics scene in the new millennium. It is a great read in itself and far superior to cheap alternatives.



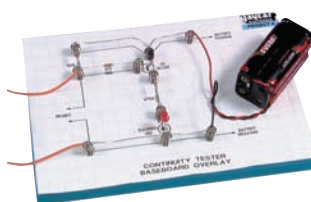
SECOND EDITION

Cat.	Qty 1+
BJ-8502	\$9.95

Short Circuits Project

The complete kit of parts available separately. This includes plastic baseboard, spring connectors and all components needed to complete every project in the book. No instructions are supplied with this kit as they come in the book which is available separately.

- Additional Hookup wire can be purchased (WH-3025)
- Optional Solar Cell Power Supply for project #16 is extra Cat ZM-9020 (batteries are also extra)
- 6VDC (4 X AA)

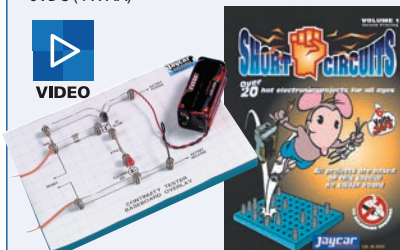


Cat.	Qty 1+	Qty 3+
KJ-8504	\$34.95	\$31.45

Short Circuits Book & Project

Apart from the book, we supply the baseboard, plenty of spring terminals and ALL the components required to build every project in the book, INCLUDING the bonus projects!

- Additional Hookup wire can be purchased (WH-3025)
- Optional Solar Cell Power Supply for project #16 is extra Cat ZM-9020 (batteries are also extra)
- 6VDC (4 X AA)



Cat.	Qty 1+	Qty 3+
KJ-8502	\$39.95	\$35.90

Reviewed in Electronics Australia May 2000

"It's all very well done, and I'm not surprised that the Short Circuits book and matching kit of parts have proved very popular with schools and colleges, as well as beginning hobbyists. Together they provide an excellent way for newcomers to 'dip their toes' into the wonders of electronics, in an enjoyable and hassle-free way, and of course it has all been designed and published right here in Australia - a credit to all concerned."

SHORT CIRCUITS VOLUME 2

Once constructors have mastered the art of assembling a circuit with springs they will want to tackle projects that are more complex. The benefit of spring termination falls away once they get into projects that have over, say, 20 parts. In addition to this, projects that work on radio frequency, or RF for short, don't like springs as they start to act like little antennae all over the place! So it's time to graduate to the heart of modern electronics - the printed circuit board. This simple device fulfils the function of mounting board & circuit wiring in one. The critical element of success in printed circuit board - or PCB for short - assembly is good soldering. Soldering is not for 8 year olds but its fine if they are older or are under adult supervision. In Short Circuits II we teach the reader how to solder. We teach you a lot more as well:

A suitable 9V battery for all projects is our SB-2423 on page 279

- How to use a Multimeter**
- What tools will be needed.
- What sort of workspace is needed.
- How the circuit works (Tech talk).
- What to do next.
- Making the circuit work in the real world.



Short circuits is a learning system

A key part of the Short Circuits learning system is that the mind is stimulated into learning electronics by building exciting projects and HAVING FUN AT THE SAME TIME. Constructors will get a real "buzz" from the exciting projects offered - 22 in all. These projects have useful functions in the "real world" and they may choose to keep them for a long time because they are so useful. For example, constructors can make a Bionic Ear amplifier for a grandparent. Listed on the following pages are the projects in the book. They have all been designed by professional engineers and tested to work reliably. Maybe one day the constructor will be an engineer, designing projects for other people.

- Full colour - 148 pages
- 205 x 275mm

FREE downloadable Short Circuits Books
now available from our website
www.jaycar.com.au/short-circuits

- Book: Cat. BJ-8504, \$12.95
- 148 Pages - Full Colour
- 205 x 275mm

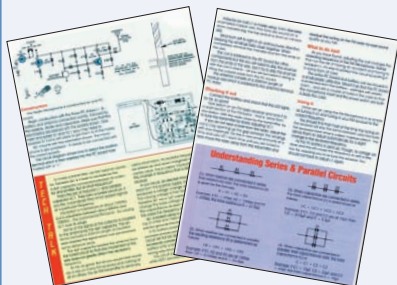
Due to author's Copyright, instructions for each project are not included in the component pack. Constructors can purchase the book, or buy a set of instructions for each project separately.



SHORT CIRCUITS VOLUME 3 - SECOND EDITION

Like our Volumes 1 & 2 book, Short Circuits Volume 3 is sold independently to each of the 30-odd projects. Some of the projects constructors will build include a Guitar Sustain Unit, a Universal Timer, Car Alarm, Two Lamp Flasher plus many more! There's even a project that demonstrates how constructors can use your computer to interface to the realworld via a computer's parallel port. Building the projects described in Volume 3 will provide constructors with the confidence needed to tackle more complex projects, such as those described in the various electronics hobby magazines.

- Step by step instructions show you how to assemble each project
- Techtalk explains the operation of each circuit in detail, to help constructors gain a thorough knowledge of the "Building Blocks" used in circuit design
- "What To Do Next" shows constructors how to modify or further improve your project
- Basic circuit theory is provided to increase constructors level of understanding



Due to author's Copyright, instructions for each project are not included in the component pack. Constructors can purchase the book, or buy a set of instructions for each project separately.

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- Book: Cat. BJ-8505, \$14.95
- 128 Pages - Full Colour
- 205 x 275mm



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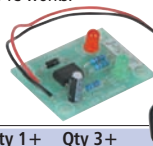
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SHORT CIRCUITS 2 PROJECTS

SC2 Project - Red/Green Flasher

Here's a simple and easy-to-build first project. It flashes two LEDs (light emitting diodes) - one red and the other green - alternately, a bit like the light on a police car. A great way to learn how a 555 Timer IC works.

- PCB & all parts supplied
- Requires 9V battery
- Instructions NOT included.
- See KJ-8201 for individual instructions or full colour project book BJ-8504.



PROJECT
Number 1

	Cat.	Qty 1+	Qty 3+
PCB: 43 x 30mm	KJ-8200	\$7.95	\$6.95
Instructions	KJ-8201	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Countdown Timer

This neat project enables you to dial a time you want to elapse before you want something to happen, say the exposure of a camera shutter or an electrically operated door to stay open. At the end of the timed period (seconds to many minutes) a relay is energized which can switch something on or off. PCB and all parts supplied, including relay.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8203 for individual instructions or full colour project book BJ-8504



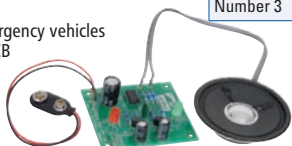
PROJECT
Number 2

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 47mm	KJ-8202	\$14.95	\$13.35
Instructions	KJ-8203	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Hee-Haw Siren with Flashing Light

This project will make the noise made by emergency vehicles when they are trying to get through traffic. PCB and all parts supplied including flashing LED.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8205 for individual instructions or full colour project book BJ-8504



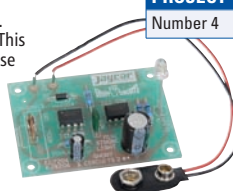
PROJECT
Number 3

	Cat.	Qty 1+	Qty 3+
PCB: 57 x 51mm	KJ-8204	\$9.95	\$8.75
Instructions	KJ-8205	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Mini Strobe Light

No, this unit won't fill a disco with blinding white light. Those things are dangerous and run straight off 240V. This one runs off a 9V battery and gives a surprisingly intense white light especially in darkness. Uses state-of-the-art LED. PCB and parts including LED supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8207 for individual instructions or full colour project book BJ-8504.



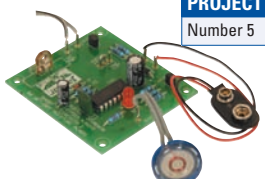
PROJECT
Number 4

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ-8206	\$18.95	\$16.95
Instructions	KJ-8207	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Drought Alarm

Well, not really a big drought. This will test the soil moisture of a favourite pot plant and an alarm will sound if the soil gets too dry.

- Instructions NOT included.
- See KJ-8211 for individual instructions or full colour project book BJ-8504
- PCB, speaker & components
- Requires 9V battery



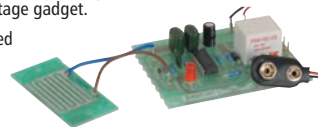
PROJECT
Number 5

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8210	\$14.95	\$13.35
Instructions	KJ-8211	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Touch Switch

This project allows you to turn things on or off simply by touching a small sensor pad with your finger. This could include operating an alarm, water pump, hi-fi speakers, or any other low voltage gadget.

- PCBs & all parts including the relay supplied
- Requires 9V battery
- Instructions NOT included.
- See KJ-8209 for individual instructions or full colour project book BJ-8504.



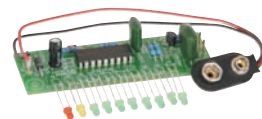
PROJECT
Number 6

	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ-8208	\$14.95	\$13.35
Instructions	KJ-8209	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Audio Level Display

Make your own fancy volume level display you see on DJ mixing desks where the columns of light dance up and down with the music. Connect it to the output of your CD, tape player or radio. Build two of them for displays on your stereo hi-fi system.

- PCB and all parts supplied
- Requires 9V battery (not included)
- Instructions NOT included.
- See KJ-8213 for individual instructions or full colour project book BJ-8504



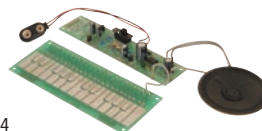
PROJECT
Number 7

	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ-8212	\$14.95	\$13.35
Instructions	KJ-8213	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Electronic Organ

You can play simple tunes easily once you have built this project! The organ keyboard is actually part of the printed circuit board. It even has vibrato for extra realism. Includes PCB and all board components.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8215 for individual instructions or full colour project book BJ-8504



PROJECT
Number 8

	Cat.	Qty 1+	Qty 3+
PCB: 133 x 31mm, 133 x 51mm	KJ-8214	\$22.95	\$20.35
Instructions	KJ-8215	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - No Brainer Amplifier

This amp is so easy to build, it's a no brainer! It will, however, give a powerful output to bring your MP3 player or sound card alive! Speaker supplied. Two required for stereo. PCB and all relevant parts included.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8217 for individual instructions or full colour project book BJ-8504



PROJECT
Number 9

	Cat.	Qty 1+	Qty 3+
PCB: 64 x 57mm	KJ-8216	\$14.95	\$13.35
Instructions	KJ-8217	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Beam Me Up Scotty Simple Intercom

This project enables you to talk (i.e. not shout) between parts of a house, or a house and a garage. You can even leave it on, say in the kitchen to monitor a baby's room. All parts supplied including PCB and 6-metres of connecting wire. Requires 9V battery.

- Instructions NOT included.
- See KJ-8219 for individual instructions or full colour project book BJ-8504



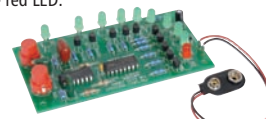
PROJECT
Number 10

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8218	\$26.95	\$24.25
Instructions	KJ-8219	\$2.50	
RECOMMEND BOX UB3 X 2	HB-6013	\$3.95 ea	

SC2 Project - Skeet Shoot Game

Here's a fun way to test your hand-eye coordination. The game sends a burst-of-light 'skeet' up along a string of ten LEDs, try to 'hit' it by pressing the FIRE button at the same time as it reaches the red LED.

- Instructions NOT included.
- See KJ-8211 for individual instructions or full colour project book BJ-8504
- PCB, LEDs and components
- Requires 9V battery*



PROJECT
Number 11

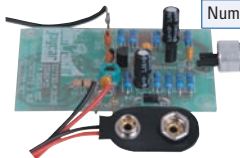
	Cat.	Qty 1+	Qty 3+
PCB: 107 x 57mm	KJ-8220	\$17.95	\$15.95
Instructions	KJ-8221	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SHORT CIRCUITS 2 PROJECTS (CONTINUED)

SC2 Project - Simple FM Bug

Small portable FM microphone. Works surprisingly well. Use it as a baby minder/monitor as well. PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8231 for individual instructions or full colour project book BJ-8504



PROJECT
Number 12

	Cat.	Qty 1+	Qty 3+
PCB: 59 x 41mm	KJ-8230	\$14.95	\$13.35
Instructions	KJ-8231	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Metronome

This neat little metronome does everything that a traditional metronome does. It produces an adjustable 'tick' sound to help you play your music at just the right tempo. It also flashes a LED once per bar, to help you get the music's rhythm right as well.

- PCB, speaker and all parts supplied including knobs.
- Requires 9V battery
- Instructions NOT included.
- See KJ-8233 for individual instructions or full colour project book BJ-8504



PROJECT
Number 13

	Cat.	Qty 1+	Qty 3+
PCB: 82 x 82mm	KJ-8232	\$18.95	\$16.95
Instructions	KJ-8233	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - Jiminy! What's That Cricket Noise?

This fun project makes the distinct sound of a cricket when triggered by a hidden microphone. Someone walks into a room, says something and the next thing this loud cricket starts to chirp! Hours of fun. PCB and all other parts including microphone supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8225 for individual instructions or full colour project book BJ-8504



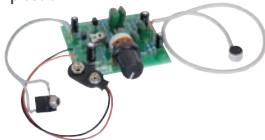
PROJECT
Number 14

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ-8224	\$14.95	\$13.35
Instructions	KJ-8225	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Bionic Ear

This project enables you to listen to a conversation (or a bird in a tree, etc) beyond what you would normally hear. It uses the principle of a directional microphone. PCB and parts supplied. A plastic bowl or similar is required for the reflector.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8227 for individual instructions or full colour project book BJ-8504



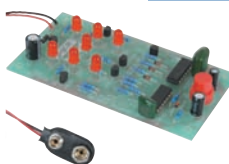
PROJECT
Number 15

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8226	\$17.95	\$15.95
Instructions	KJ-8227	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Casino! Electronic Dice

Well dice is really plural and this is just one dice a die. At the press of a button roll 6 light emitting diodes flash briefly and only one stays lit, representing a number between 1 and 6. Truly, truly random and never rolls off the table! PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8223 for individual instructions or full colour project book BJ-8504



PROJECT
Number 16

	Cat.	Qty 1+	Qty 3+
PCB: 108 x 51mm	KJ-8222	\$14.95	\$13.35
Instructions	KJ-8223	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Sound Like a Dalek

This project will change your voice into that metallic sounding robot voice so familiar in the space adventure movies. PCB and parts supplied. Connect it to the no brainer amp and get really scary!

- Requires 9V battery
- Instructions NOT included.
- See KJ-8229 for individual instructions or full colour project book BJ-8504



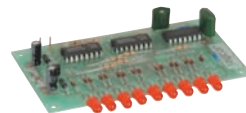
PROJECT
Number 17

	Cat.	Qty 1+	Qty 3+
PCB: 102 x 57mm	KJ-8228	\$23.95	\$21.35
Instructions	KJ-8229	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Knight Rider Light Scanner

Now you can make the light scanner that goes on the bonnet of that famous car. Looks fantastic in all sorts of places! PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8237 for individual instructions or full colour project book BJ-8504



PROJECT
Number 18

	Cat.	Qty 1+	Qty 3+
PCB: 102 x 55mm	KJ-8236	\$19.95	\$17.95
Instructions	KJ-8237	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Event Counter - 0 to 999

This project demonstrates how 3-digit counters work and can be used for real-world counting jobs, like counting laps on a slot car set, etc. An excellent 'hands on' introduction to electronics.

- PCB and all parts supplied
- Requires 9V battery
- Instructions NOT included.
- See KJ-8235 for instructions or full colour project book BJ-8504



PROJECT
Number 20

	Cat.	Qty 1+	Qty 3+
PCB: 127 x 76mm	KJ-8234	\$23.95	\$21.35
Instructions	KJ-8235	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - FM Radio with Electronic Tuning

This is a true state-of-the-art 88-108MHz FM radio with electronic station tuning and powerful amplifier included! It has a voltage regulated power supply and works really well. Your friends won't believe you built it. PCB and all board parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8239 for individual instructions or full colour project book BJ-8504



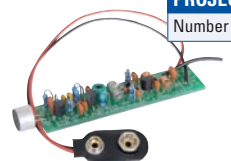
PROJECT
Number 21

	Cat.	Qty 1+	Qty 3+
PCB: 108 x 51mm	KJ-8238	\$34.95	\$31.45
Instructions	KJ-8239	\$2.50	
RECOMMENDED BOX	HB-6032	\$7.95 ea	

SC2 Project - Three Stage FM Transmitter

So stable it could be used as a small radio station. The audience will be limited to the backyard as there are rules about such things. A microphone is included.

Instructions included in kit.



PROJECT
Number 22

	Cat.	Qty 1+	Qty 3+
PCB: 70 x 10mm	KJ-8750	\$23.95	\$21.35
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Due to author's Copyright, instructions for each project are not included in the component pack. Constructors can purchase the book, or buy a set of instructions for each project separately.

SHORT CIRCUITS 3 PROJECTS

SC3 Project - Dasher Flasher for Cars

A really low cost way to deter thieves from breaking into your car. This lamp flasher mounts on your car dashboard and starts flashing when the ignition is off. Looks like the real thing. Kit includes PCB, lamp and all components.



PROJECT
Number 1

	Cat.	Qty 1+	Qty 3+
PCB: 47 x 41mm	KJ-8050	\$9.95	\$8.75
Instructions	KJ-8051	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC3 Project - Ding Dong Door Bell

Another useful little kit that generates the sound of a classic Ding Dong door bell. Just the thing for your front door. Kit includes PCB, speaker and all components. 12VDC power required.



PROJECT
Number 2

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8052	\$12.95	\$11.35
Instructions	KJ-8053	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Electronic Eye

Install this kit to monitor traffic on a path or through a doorway. When a person or object breaks the beam the loudspeaker will sound. Kit includes PCB, LDR, speaker and all components. 12VDC power required.



PROJECT
Number 3

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 61mm	KJ-8054	\$14.95	\$13.35
Instructions	KJ-8055	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Simple FM Alarm

Track moving objects, find the dog when it runs away or even recover your stolen goods using an FM radio. This kit transmits a tone over the FM band so that you can track it down using an FM radio. Kit includes PCB, 9V battery and all electronic components. A fun & useful project.



PROJECT
Number 4

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8056	\$14.95	\$13.35
Instructions	KJ-8057	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Infrared Remote Link

This can be used as a remote on/off or momentary switch.

- Kit includes PCBs, 9V battery and all electronic components.
- Receiver requires 12VDC power



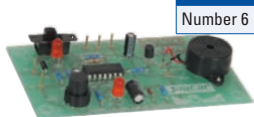
PROJECT
Number 5

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8058	\$28.95	\$25.95
Instructions	KJ-8059	\$2.50	
RECOMMEND BOX UB3 X 2	HB-6013	\$3.95 ea	

SC3 Project - Simple Intruder Alarm

This simple design features a normally open and normally closed input, 40 second siren duration and triggered LED indication.

- Kit includes PCB, buzzer & electronic components
- 12VDC power required



PROJECT
Number 6

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8060	\$14.95	\$13.35
Instructions	KJ-8061	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Screamer Car Alarm

A more sophisticated alarm including entry/exit delay, flashing deterrent light, soft warning alarm and deafening internal siren. Thieves will make a hasty retreat!

- Kit includes PCB, siren and electronic components



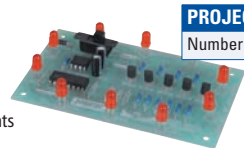
PROJECT
Number 7

	Cat.	Qty 1+	Qty 3+
PCB: 132 x 88mm	KJ-8062	\$32.95	\$29.45
Instructions	KJ-8063	\$2.50	
RECOMMENDED BOX - UB2	HB-6012	\$6.95 ea	

SC3 Project - Light Chase

Dazzling display using 10 LEDs that appear to chase each other. Build for a shop, theatre or advertising display.

- Kit includes PCB, LEDs and electronic components
- 12VDC power required



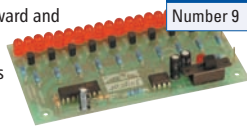
PROJECT
Number 8

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8064	\$12.95	\$11.35
Instructions	KJ-8065	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Light Scanner / Chaser

An impressive display using 20 LEDs that chase forward and backward - just like scanners seen in space movies.

- Kit includes PCB, LEDs & all electronic components
- 12VDC power required



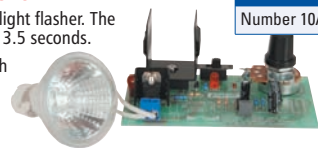
PROJECT
Number 9

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8066	\$16.95	\$14.95
Instructions	KJ-8067	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Really Bright Flasher

Attract attention with this bright halogen light flasher. The flash rate can be adjusted between 0.5 to 3.5 seconds.

- Kit includes PCB, 12V halogen lamp with base and all electronic components.
- 12VAC power required - use MP-3044



PROJECT
Number 10A

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8068	\$24.95	\$22.35
Instructions	KJ-8069	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Two Lamp Flasher

Alternate flashing halogen lamps with an adjustable flash rate between 1 to 4 seconds.

- Kit includes PCB, two halogen lamps with bases and all electronic components.
- 12VAC required - use MP-3044



PROJECT
Number 10B

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8070	\$29.95	\$26.95
Instructions	KJ-8071	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - The Champ Amplifier

A cheap and handy amplifier that can improve low-level signal sources so they can be heard on headphones or a speaker.

- Kit includes PCB, volume potentiometer and all electronic components.
- 12VDC power required



PROJECT
Number 11

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8072	\$14.95	\$13.35
Instructions	KJ-8073	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Universal Stereo Preamplifier

If the input signal to your amplifier is not sufficient you will need a preamplifier such as this one to boost the signal.

- Kit includes PCB and all electronic components.
- 12VDC power required



PROJECT
Number 12

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8074	\$14.95	\$13.35
Instructions	KJ-8075	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - High Power 12V Amplifier

This amplifier-on-a-chip can deliver about 13.5-watts into a 4-ohm speaker. That's quite loud!

- Kit includes PCB, amplifier IC, heatsink and all electronic components.
- Speaker and 12VDC power required



PROJECT
Number 13

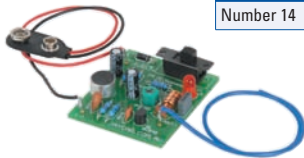
	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8076	\$24.95	\$22.45
Instructions	KJ-8077	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SHORT CIRCUITS 3 PROJECTS (CONTINUED)

SC3 Project - Simple FM Microphone

This FM transmitter has many possible uses including baby room monitor, wireless microphone or spy bug. It can be picked up on any FM radio.

- Kit includes PCB, electret microphone, 9V battery and electronic components.



PROJECT
Number 14

	Cat.	Qty 1+	Qty 3+
PCB: 48 x 42mm	KJ-8078	\$12.95	\$11.35
Instructions	KJ-8079	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC3 Project - Mini-mitter FM Transmitter

Transmit stereo audio from your tape deck or CD player to any FM radio elsewhere in your house. You could even tune in on a portable walkabout radio.

- Kit supplied with PCB, 1 x AA battery and electronic components.



PROJECT
Number 15

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8114	\$34.95	\$31.45
Instructions	KJ-8115	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Low-cost Intercom System

A low-cost method of communicating between two rooms. The remote unit is hands free so it's also great as a baby monitor.

- Kit includes PCB, speakers and electronic components.
- 12VDC required.



PROJECT
Number 16

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8080	\$15.95	\$14.35
Instructions	KJ-8081	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - VOX - Sound Switch

This sound-activated switch closes a relay when a loud-enough sound is heard. It switches off when the sound stops. Ideal for radio transmitters or surveillance applications.

- Kit includes PCB, relay, electret mic & electronic components.
- 12VDC required.



PROJECT
Number 18

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8084	\$14.95	\$13.35
Instructions	KJ-8085	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Train Sound FX

Authentic sounding train whistle and horn sound effects for your model railway.

- Kit includes PCB, speaker and electronic components.
- 12VDC power required.



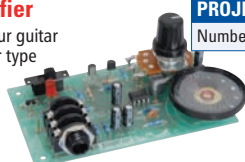
PROJECT
Number 19

	Cat.	Qty 1+	Qty 3+
PCB: 160 x 103mm	KJ-8086	\$27.95	\$24.95
Instructions	KJ-8087	\$2.50	
RECOMMENDED BOX - UB2	HB-6012	\$6.95 ea	

SC3 Project - Guitar Practice Amplifier

This low cost amplifier allows you to practice your guitar without annoying the neighbours. It has a guitar type input socket, small speaker and volume.

- Kit supplied with PCB, speaker, socket and electronic components.
- 12VDC power required.



PROJECT
Number 22

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8092	\$16.95	\$14.95
Instructions	KJ-8093	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Guitar Sustain Unit

Add this sustain unit to your guitar to make it sound more fulfilling. Features adjustable Decay and Attack.

- Kit supplied with PCB, 6.5mm sockets and electronic components
- 12VDC power required



PROJECT
Number 26

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8100	\$23.95	\$21.35
Instructions	KJ-8101	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Guitar Distortion Unit

Distortion is popular to many guitarists. It can make the music sound quite different. Project includes PCB, 6.5mm sockets and electrical components.

- 12VDC power required



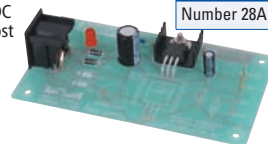
PROJECT
Number 27

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8102	\$16.95	\$14.95
Instructions	KJ-8103	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Regulated +12V Power Supply

Many of the Short Circuits 3 projects require 12VDC power. Using our plugpack (MP-3055), this low cost power supply is ideal to power these projects.

- Kit supplied with PCB, 12V regulator and electronic components



PROJECT
Number 28A

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8104	\$12.95	\$11.35
Instructions	KJ-8105	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Regulated +/- 12V Power Supply

Some applications need a positive and negative supply. This circuit will supply a +12V and -12V rail.

- Kit supplied with PCB, 12V regulators and electronic components
- Requires plugpack MP-3055



PROJECT
Number 28B

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8106	\$14.95	\$13.35
Instructions	KJ-8107	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Universal Timer

This timer is adjustable between 1-second to 3.5-minutes. An LED illuminates during the timing period and a buzzer sounds at the end.

- Kit supplied with PCB, buzzer & electronic components
- 12VDC power required



PROJECT
Number 29

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8108	\$16.95	\$14.95
Instructions	KJ-8109	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Waveform Generator

This low-cost signal generator produces adjustable square and triangular waves between 100Hz-20kHz. Ideal for testing, troubleshooting and developing circuits.

- Kit supplied with PCB and electronic components
- 12VDC power required



PROJECT
Number 30

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8110	\$16.95	\$14.95
Instructions	KJ-8111	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

ELECTRONICS KITS & PROJECTS

Despite the massive interest in Arduino, there are still a number of first rate projects from Silicon Chip. Of particular note, we are supporting the latest version of the "Champ" stereo preamp from the June 2015 issue - see page 122.

We also have our version of the fantastic QuickBrake super-fast break lamp warning kit from their Jan 2016 issue. This unit can prevent a rear-on collision because the driver behind you is given more time to react to sudden braking. The kit is described on page 125 of this catalogue. In addition to this, we still have good stocks of all the classic kits and of course our famous "kit back catalogue" of kits.

Happy soldering!



AUDIO/VIDEO 122

+/- 55V Power Supply	KC-5517 123
1W Audio Amplifier	KG-9032 123
50WRMS Mono Amp Module	KC-5150 122
"Champion" Preamp	KC-5531 122
Clifford the Cricket	KC-5178 124
Crazy Cricket & Freaky Frog	KC-5510 124
Crystal Radio	KV-3540 123
Digital to Analogue Converter	KC-5172 123
High-Power Class-D Amp	KC-5514 123
Miniature FM Transmitter	KE-4711 123
Mini-D 2 x 10W Class-D Amp	KC-5530 123
Super Ear	KA-1809 123
The Champ 0.5W Amplifier	KC-5152 122
The Champ Amplifier	KC-5519 122
The Champ Preamp	KC-5166 122
Theremin Mk II	KC-5475 124
Universal Stereo Preamp	KC-5159 122

AUTOMOTIVE & MARINE 124

10A 12VDC Motor Controller	KC-5225 125
Car Battery Monitor	KA-1683 125

CDI Module for Motorbikes KC-5466 126

Courtesy Light Extender	KC-5392 124
Economy Temperature Switch	KC-5381 125
GPS Datalogger/Tracker Kit	KC-5525 124
Headlight Reminder	KC-5317 125
High Energy Ignition	KC-5513 125
QuickBrake	KC-5532 125
Threshold Voltage Switch	KC-5528 126
Ultrasonic Antifouling	KC-5498 126
Universal Voltage Switch	KC-5377 126

HOUSEHOLD 126

433MHz Remote Switch	KC-5473 127
Flexitimer	KA-1732 127
Garbage/Recycling Reminder	KC-5518 126
Liquid Level Sensor	KG-9138 127
Mains Timer Kit for Fans/Lights	KC-5512 127
IR Light Barrier Kit	KG-9096 127
Temperature Switch	KG-9140 127
Tempmaster MK3 - Thermostat	KC-5529 127

POWER 128

12VDC Relay Card	KG-9142 128
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3V - 9V DC - DC Converter KC-5391 128

Battery Saver Kit	KC-5523 128
DC Relay Switch 12V	KC-5434 128
Deluxe Motor Speed Control	KC-5478 129
Improved Low Voltage Regulator	KC-5463 128
LED Battery Voltage Indicator	KA-1778 129
Motor Speed Controller	KC-5502 129
Motor Speed Controller II	KC-5526 129
Soft Start Kit for Power Tools	KC-5511 128
Universal Power Supply MKII	KC-5501 129
Voltage Regulator	KC-5446 128

SCI FI FX 130

Jacob's Ladder Mk II	KC-5445 130
Jacobs Ladder Mk III	KC-5520 130

SECURITY 130

IR Floodlight	KG-9068 130
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TEST EQUIPMENT 131

Digital Multimeter Kit	KG-9250 131
Transistor Tester	KA-1119 131
USB Power Monitor	KC-5516 131
USB Voltage Checker	KC-5522 131

EXPLANATION OF KIT ICONS



SIMPLE

SIMPLE - These kits are straightforward to assemble, generally built in one session and will require some basic electronics knowledge and soldering skills. Most are battery or AC adaptor powered. They may not have enclosures (i.e. "boxes") or front panels.



DETAILED

DETAILED - Similar to the above but basically bigger. They are either "short forms" of larger projects or are fully operational projects with enclosures, front panels, etc. A greater knowledge of electronics is required to understand their operation and "troubleshoot" if necessary.



COMPLEX

COMPLEX - All big projects which by their nature are complex, require several sittings to complete and may require some mechanical assembly. A good knowledge of electronics and manual dexterity is necessary to ensure success.



BATTERY INCLUDED

BATTERY INCLUDED - Batteries are included with the kit.



DANGEROUS 240V

240V POWERED - All mains kits have this logo. We do this because we feel it is necessary that only experienced kit constructors should attempt mains powered projects. It is generally a good idea to have a competent colleague check your work before applying power.



AUTOMOTIVE KIT

AUTOMOTIVE KIT - Kit is specifically designed for automotive (which could mean motorcycle, caravan or boat as well).



15 mins

BUILD TIME - We understand that your time is valuable. We have therefore decided to provide you with an estimated build time for all our kits. Each kit includes a stopwatch logo that clearly indicates construction time. We know that you will find this useful.



KWIK KIT - A low cost fast assembly range of kits. Kwik kits are a fully imported range that can be assembled in just one sitting, sometimes only minutes! All printed circuit boards are screened with a component overlay. The instructions assume component knowledge & the ability to follow simple schematic diagrams.



SMD COMPONENT - Kit involves soldering a SMD (Surface Mount Device). Suitable soldering iron for SMD soldering and proper handling techniques are required.



SMD COMPONENT - PRE SOLDERED - Kit supplied with surface mount component already soldered onto the PCB

GUARANTEE ON KITS

Most kits are successfully constructed with few problems. However, we recommend that if a kit builder does not have enough knowledge to diagnose faults, that the project should not be started unless assistance can be obtained. Unfortunately, one small faulty solder joint or wiring mistake can prevent a project from operating, which would take hours to locate and at normal service rates the service charge could well be more than the total cost of the kit. If you believe that you may have difficulty in building a kit (which is

simply a complete set of separate parts made up to a list provided by the major electronics magazines) and you cannot get assistance from a friend, we suggest you return the kit to us in its original condition for a refund under our satisfaction guarantee. Unfortunately, kits cannot be replaced under our satisfaction guarantee once construction has been commenced. However, should you find any faulty parts (only), we will gladly replace them under warranty.

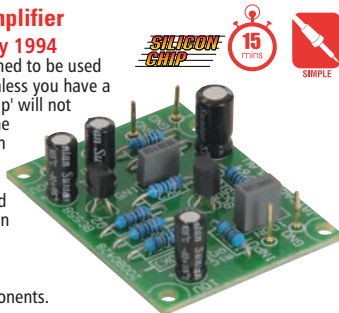
PREAMPLIFIER KITS

"Pre-Champ" Versatile Preamplifier

Refer: Silicon Chip Magazine July 1994

This tiny preamp was specifically designed to be used with the 'Champ' amplifier KC-5152. Unless you have a signal of sufficient amplitude the 'Champ' will not produce its maximum power output. The 'Pre-Champ' is the answer with a gain in excess of 40dB, which is more than enough for most applications. You can vary the gain by changing a resistor and there is even provision on the PCB for an electret microphone. Use AM-4010.

- Power requirement 6-12VDC.
- Kit includes PCB and electronic components.
- Can be battery powered.
- PCB: 46 x 36mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5166	\$9.95	\$8.75
ELECTRET MICROPHONE TO SUIT	AM-4010	\$2.35 ea	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

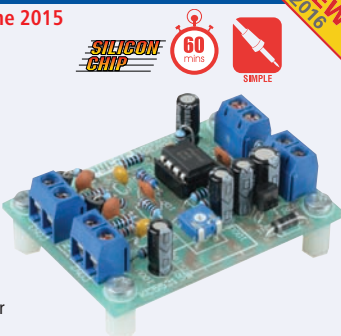
Champion Stereo/Dual Channel Preamplifier Kit

Refer: Silicon Chip Magazine June 2015

Use it as a general purpose stereo preamp or as a dual channel preamp. High input impedance for ceramic phono cartridge or piezoelectric pickup in musical instrument. Can be configured as single channel with fixed or variable gain, and works with Electret microphones. Powered from 6-9VDC (eg. 9V battery) or 12-20VDC.

Kit supplied with PCB and on-board electronic components for 12-20VDC operation (Electret mic not included, use AM-4010). For 6-9VDC operation an LP2950-05 5V low dropout regulator is required (use ZV-1645).

- PCB: 57 x 41mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5531	\$16.95	\$14.95

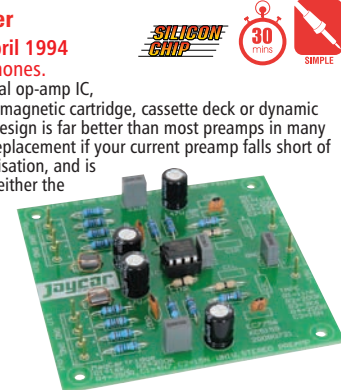
Universal Stereo Preamplifier

Refer: Silicon Chip Magazine April 1994

Perfect for phono, tape or microphones.

Based around the low noise LM833 dual op-amp IC, this preamp is designed for use with a magnetic cartridge, cassette deck or dynamic microphone. The performance of this design is far better than most preamps in many stereo amplifiers, making it a worthy replacement if your current preamp falls short of expectation. It features RIAA/IEC equalisation, and is supplied with all components to build either the phono, tape or microphone version. Measuring only 80 x 78 x 30mm, it is ideal for incorporating into existing equipment

- PCB and components
- +/- 15VDC
- Use Cat MM-2007 if power is not available in your equipment.
- PCB: 80 x 78mm.



	Cat.	Qty 1+	Qty 5+
KIT	KC-5159	\$18.95	\$16.95
TRANSFORMER TO SUIT	MM-2007	\$8.95 ea	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

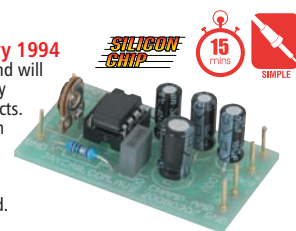
AMPLIFIER KITS

"The Champ" Audio Amplifier

Refer: Silicon Chip Magazine February 1994

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9 volt supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-12VDC and is smaller than a 9 volt battery, allowing it to fit into the tightest of spaces.

- PCB and all electronic components included.
- PCB: 46 x 26mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5152	\$9.95	\$8.75
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

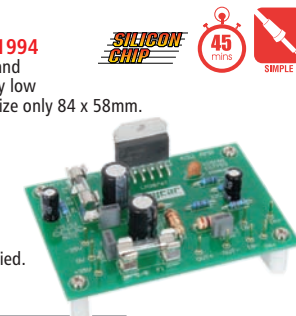
50 Watt Amplifier

Refer: Silicon Chip Magazine March 1994

This 50 watt unit uses a single chip module and provides 50 watts RMS into 8 ohms with very low distortion and extreme quietness. PC Board size only 84 x 58mm.

Power Requirements:

- +/-35VDC rails @ 80VA per module
- MT-2114 25 + 25V 160VA toroid x 1
- ZR-1314 Bridge rectifier x 1
- RE-6241 2,200/50V electro caps x 2
- Kit is supplied in short form version.
- PC Board and electronic components supplied.
- Use heatsink HH-8590.
- PCB: 84 x 58mm



Specifications	KC-5150
Output power	50WRMS continuous into 8 ohms
Power supply	+/- 37.5VDC
Signal-to-noise ratio	-114dB (A-weighted) -106dB (20-20kHz)
Distortion	0.002% at 40W 1kHz
IHF power output	60W @ 1kHz

	Cat.	Qty 1+	Qty 5+
KIT	KC-5150	\$32.95	\$29.45
BRIDGE RECTIFIER	ZR-1314	\$2.50 ea	
ELECTRO CAPS	RE-6241	\$3.25 ea	

'The Champion' Audio Amplifier Kit with Pre-Amplifier

Refer: Silicon Chip Magazine January 2013

An amplifier and pre-amplifier combination for all those general-purpose audio projects. It uses the AN7511 audio IC to deliver 2W music power into 8 ohms from a 9 to 12V supply. Features low distortion, two inputs (mixed 1:1), over-temperature protection (auto-limiting), mute and standby control. Pre-amplifier is also suitable for microphones and electric guitars, and can be separated from the amplifier for individual use. Kit supplied with silk-screened PCB, heatsink and PCB mount components. Note: Optional 10k ohm potentiometer for external volume control use RP-7610

Specifications	KC-5519
Operating voltage range	4 - 13.5VDC
Output power	up to 4W
Music power	3W @ 9 - 12V
Signal-to-noise ratio	65dB
Frequency Response	-2.5dB @ 20Hz, -0.2dB @ 20kHz
THD+N, 1kHz: 0.25%	
Gain	34dB for Amplifier, up to 58dB with pre-amplifier
Input Sensitivity for Amp only	52mV RMS @ 5V, 125mV RMS @ 9 - 12V
Input Sensitivity for Amp & Pre-amp	2mV RMS @ 5V, 5mV RMS @ 9 - 12V
Quiescent current	2mA (Pre-amplifier) + 30-60mA (Amplifier)
Standby current	2mA (Pre-amplifier) + 1-10uA (Amplifier)
PCB	101x41mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5519	\$22.95	\$20.35

KIT BACK CATALOGUE - AUDIO KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
115WRMS/8Ω, 175WRMS Power Amp Module	SC 04/96	KC-5201	\$95.95
Bass Blazer Barograph Display	SC 02/01	KC-5305	\$49.95
CDROM Controller for Audio Playback	SC 12/07	KC-5459	\$64.95
DAB +/- FM Digital Radio	SC 08/10	KC-5491	\$399.00
Digital Audio Delay	SC 12/11	KC-5506	\$99.95
Guitar Mixer 4 Channel 12VDC	SC 06/07	KC-5448	\$99.00
Power Amp Module 115W RMS/8 Ohm / 175WRMS/4 Ohm	SC 04/96	KC-5201	\$95.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
Power Supply to suit KC-480	SC 01/03	KC-5347	\$17.95
KC-480 50W Mono Amplifier Module V1 TO-218	SC 01/03	KC-5345	\$49.95
Stereo Compressor	SC 01/12	KC-5507	\$59.95
Studio 350 - High Power Amplifier	SC 01/04	KC-5372	\$175.00
Subwoofer Controller	SC 08/07	KC-5452	\$99.95
Theremin Synthesiser - Midi	SC 04/05	KC-5410	\$159.00
Universal Speaker Protection & Muting Module	SC 07/07	KC-5450	\$34.95

AMPLIFIER KITS (CONTINUED)

1 Watt Audio Amplifier

This tiny PCB measuring only 28 x 28mm incorporates all the electronics for a 1 Watt amplifier. 4 to 12VDC operating voltage, 50mV input sensitivity, 8 ohm output and 20 to 25000Hz output frequency. Optional connection for a 10k ohm - 100k ohm logarithmic potentiometer (not included) for adjustable volume control.

- PCB and components.
- 9VDC (use MP-3146)
- PCB: 41 x 24mm



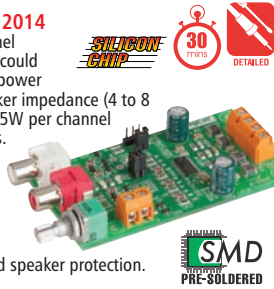
	Cat.	Qty 1+	Qty 5+
KIT	KG-9032	\$9.95	\$8.75
9VDC PLUGPACK TO SUIT	MP-3146	\$17.95 ea	

Mini-D 2 x 10W Class-D Amplifier

Refer: Silicon Chip Magazine September 2014

This compact amplifier can deliver 10W per channel stereo or 30W mono, and is powered by DC so it could be used for busking running of a battery. Output power depends on operating voltage (8 to 25VDC) speaker impedance (4 to 8 Ohm) used. With a 12VDC supply it can deliver 7.5W per channel into 8-ohm speakers or 2 x 15W into 4-ohm loads. Highly efficient there is no need for a heatsink!

- Up to 91% efficient
- Selectable gain
- On-board volume control
- Low-power shutdown mode
- Over-temperature, over-current, short circuit and speaker protection.
- PCB: 85 x 46mm



Supplied with double sided, solder-masked and screen-printed PCB, and ALL SMD components pre-soldered to the PCB to save you the hassle of soldering them yourself.

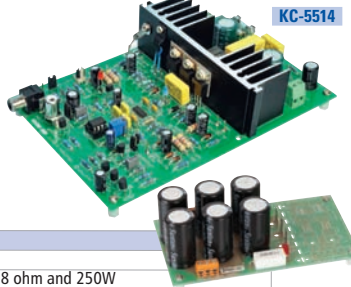
	Cat.	Qty 1+	Qty 5+
KIT	KC-5530	\$49.95	\$44.90

High-Power Class-D Audio Amplifier

Refer: Silicon Chip Magazine November & December 2012

This DIY high performance amplifier boasts 250WRMS output into 4 ohms, 150W into 8 ohms and can be bridged with a second kit for 450W into 8 ohms. Not only does it output high-quality sound, it is also rugged and reliable with all sorts of protection built in. Class-D amplifiers are also far more efficient and generate much less heat than linear Class A, B and AB designs.

- High efficiency & power
- Low distortion and noise
- Bridging option for driving 8-ohm load with two modules
- Over-current protection
- Over-temperature protection
- Under-voltage switch-off
- Over-voltage switch-off
- DC offset protection
- Fault indicator
- Optional speaker protection module



Specifications	KC-5514
THD+N	<0.01%
Power output	up to 150W into 8 ohm and 250W into 4 ohm, depending on power supply
Efficiency	Typically 90% at full power for 8 ohm and 83% for 4 ohm
Signal-to-noise ratio	103dB with respect to full power
Input sensitivity	2VRMS (4 ohm), 2.2VRMS (8 ohm)
Frequency response	+/- 1dB, 10Hz - 10kHz
Power requirements	+/- 40 to 60VDC, 50 to 55V nominal (use KC-5517)

Kit supplied with double sided, solder masked and screen-printed PCB with SMD IC pre-soldered, heatsink, and electronic components.

- PCB dimensions: 117 x 167mm

Note: The surface-mount IC is pre-soldered to avoid frustration

	Cat.	Qty 1+	Qty 5+
KIT	KC-5514	\$89.95	\$80.95
+/- 55V POWER SUPPLY	KC-5517	\$34.95	\$31.45

AUDIO KITS

The Super Ear

Refer: Electronics Australia May 1998

This kit assists people who have difficulty in hearing high audio frequencies, or for those who want to hear more than their normal unaided ear. By amplifying these high audio frequencies, not only will conversations be made clearer, you will be able to hear noises not normally heard such as insects or a watch ticking, for example. Built into a small case and powered from a 9V battery makes this kit totally portable. Use it as a hearing aid or for a fun & educational purpose.

- Kit supplied with case, machined panel, PCB, 9V battery, and all electronic components.
- Headphones required.
- Note: Not a replacement for a proper hearing aid.
- PCB: 56 x 26mm



	Cat.	Qty 1+	Qty 5+
KIT	KA-1809	\$29.95	\$26.90

"Minivox" Voice Operated Relay

Refer: Silicon Chip Magazine September 1994

Voice operated relays are often used in 'hands free' communication such as mobile radios, amateur transceivers as well as some PA applications. The idea, of course is that instead of pushing a button on the microphone to talk, the sound of the voice activates it instead.

This tiny kit measures approx 50 x 50 x 15mm and is designed to fit into the tightest spaces, has almost no turn-on delay, and has 3 second release time.

- 12VDC @ 35mA required.
- Kit is supplied with PCB electret mic, and all specified components.
- PCB: 47 x 44mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5172	\$16.95	\$14.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

AV KITS - RADIO & FM KITS

Crystal Radio

A radio without batteries!

Enjoy AM broadcasting without using battery or other power sources. Ideal for entry-level students or hobbyist with little electronics experience.

- Includes circuit explanation.
- Kit supplied with screen printed PCB (81x53mm), germanium diode, pre-wound coil, earphone and all components.
- PCB: 80 x 50mm.



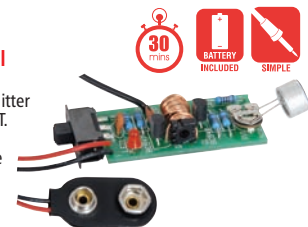
	Cat.	Qty 1+	Qty 5+
KIT	KV-3540	\$19.95	\$17.95

Miniature FM Transmitter

Refer: Electronics Today International December 1985

This unit is a two transistor two stage transmitter that has the benefits of being VERY COMPACT. The kit contains PCB, 9V battery and all components, and makes an ideal inexpensive beginners kit.

- PCB: 45 x 23mm



	Cat.	Qty 1+	Qty 5+
KIT	KE-4711	\$14.95	\$13.45
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

KIT BACK CATALOGUE - AV KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
Annunciator with 75mm High Digits - 00 to 99	SC 12/05	KC-5420	\$59.95
AV Booster Kit	SC 04/03	KC-5350	\$99.95
AV Distribution Amplifier with S-Video - Low Cost	SC 11/01	KC-5321	\$139.00

KIT BACK CATALOGUE - RADIO/FM KITS

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
Composite AV Distribution Amplifier - Low Cost	SC 11/01	KC-5320	\$139.00
100-200MHz VHF Converter	Kwik Kit	KG-9128	\$29.95

PROJECTS & LEARNING AUDIO & AUTOMOTIVE KITS

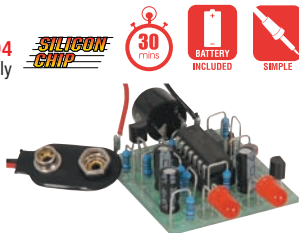
AUDIO EFFECTS KITS

Clifford The Cricket

Refer: Silicon Chip Magazine Dec 1994

Clifford hides in the dark and chirps annoyingly until a light is turned on - just like a real cricket. Clifford is created on a small PCB and has little LED insect eyes that flash as it sings. Just like a real cricket, it waits a few seconds after darkness until it begins chirping, and stops instantly when a light comes back on.

- PCB, piezo buzzer, LDR plus all electronic components supplied.
- PCB: 41 x 36mm



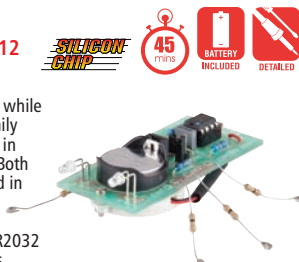
	Cat.	Qty 1+	Qty 5+
KIT	KC-5178	\$17.95	\$15.95

Crazy Cricket & Freaky Frog

Refer: Silicon Chip Magazine June 2012

A fun first project for a budding electronics enthusiast. Designed to imitate the chirping noise of a cricket or gentle croaking of a frog, while keeping its location secret to annoy other family members. It activates after a short time delay in darkness and stops when disturbed by light. Both the cricket or frog modes are pre-programmed in the IC. Each time you turn it on, the alternating program runs. Kit supplied with silk screened PCB, pre-programmed PIC IC, CR2032 button cell battery and electronic components.

- PCB dimensions: 30 x 65mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5510	\$22.95	\$20.35

Theremin Synthesiser MkII

Refer: Silicon Chip Magazine March 2009

The ever-popular Theremin is better than ever. It's easier to set up with extra test points for volume adjustment and power supply measurement and it now runs on AC to avoid the interference switchmode plugpacks can cause. It's also easier to build with PCB-mounted switches and pots to reduce wiring to just the hand plate, speaker and antenna and has the addition of a skew control to vary the audio tone from distorted to clean.

- Complete kit contains PCB with overlay, pre-machined case and all specified components.
- 12VAC 250mA power required.
- PCB size: 85 x 145mm



CREATE YOUR OWN WEIRD SCIENCE FICTION SOUNDS WITH THIS MODERN IMPLEMENTATION OF AN OLD IDEA.

As used in the Beach Boys classic hit "Good Vibrations" Create your own weird science fiction sounds with this modern implementation of an old idea. The Theremin synthesiser produces those familiar science fiction movie sound effects when you move your hand between a metal plate and antenna. The unit has an amazing range from piercing shrieks to low end growling sounds. The Theremin, named after its inventor Leon Theremin, is a musical instrument that uses electronic circuits to produce audible sounds, having the unusual aspect of being controlled by the player's hand movements near the two "antennas", without touching the instrument.

HOW DOES IT WORK?

As the player moves his hands, the value of capacitance between his hand and the theremin's antennas vary, changing current in the circuit, which in turn controls the sound signal that goes to the amplifier and speaker. One hand is used to control the Theremin's pitch, and the other is used to control the volume.

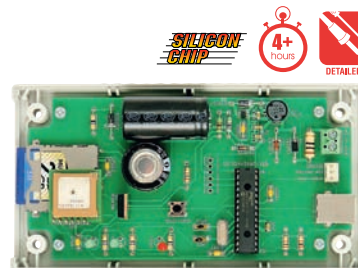
	Cat.	Qty 1+	Qty 5+
KIT	KC-5475	\$79.95	\$71.95

AUTOMOTIVE KITS

GPS Data Logger/Tracker

Refer: Silicon Chip Magazine November 2013

Precisely records where your car, boat or aeroplane has travelled over time, which you can playback on software such as Google Earth to map your journey. It's a great device for off-road drivers, sailors, farmers and grey nomads and can record a lifetime of travelling onto a single SD card.



- Records the route, time & date on an SD card (available separately) each time the vehicle is used
- Stored SD card data can be displayed in Google Earth or other mapping software
- Records points of interest (POI) at the press of a button*. In Google Earth, each POI marker is displayed as a yellow pin with an associated time & distance from the start
- Records in up to five formats: Google Earth KML, GPS Exchange, raw NMEA data & two Microsoft Excel compatible formats
- Can record POI locations in a spreadsheet called LOG.XLS and can record a travel diary with private & business entries in a spreadsheet called DIARY.XLS
- When diary recording is turned on, pressing the POI button during a trip means that the distance travelled (in km) is recorded in the 'Business' column of DIARY.XLS
- Powered from the vehicle's 12V battery & can be permanently wired into circuit.

Kit supplied with silk-screened PCB, enclosure (150 x 80 x 30mm) with label, pre-programmed PIC, GPS module, and electronic components.

*Power cable and push button switches for POI and travel available separately depending on your application.

The SMD components are already pre-soldered to the PCB to save you the hassle.

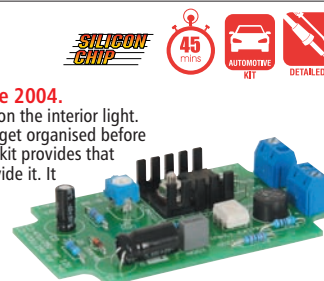
	Cat.	Qty 1+	Qty 5+
KIT	KC-5525	\$149.00	\$133.95

Courtesy Interior Light Delay

Refer: Silicon Chip Magazine June 2004.

Many modern cars feature a time delay on the interior light. It still allows you time to buckle up and get organised before the light dims and finally goes out. This kit provides that feature for cars which don't already provide it. It has a soft fade out after a set time has elapsed, and features much simpler universal wiring than previous models we have had.

- Kit supplied with PCB with overlay, and all electronic components.
- Suitable for circuits switching ground or +12V or 24VDC (car & truck with negative chassis.)
- PCB: 78 x 46mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5392	\$22.95	\$20.35
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Kit Constructors Manual

A must for amateur constructors. Contains much useful information for the more experienced. Huge amounts of information on construction and identification of parts.

- 8 pages.



BOOK



MADE IN AUSTRALIA



	Cat.	Qty 1+
KIT	BI-8200	\$2.00

KIT BACK CATALOGUE - AV VIDEO KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
Component Video RGB Converter	SC 05/04	KC-5388	\$99.95
RGB to Component Video Converter	SC 08/04	KC-5398	\$89.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
Video Enhancer & Y/C Separator	SC 08/04	KC-5394	\$179.00

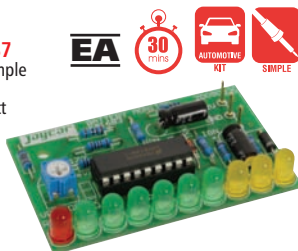
AUTOMOTIVE KITS (CONTINUED)

Car Battery Monitor

Refer: Electronics Australia May 1987

Don't get caught with a flat battery! This simple electronic voltmeter lets you monitor the condition of your car's battery so you can act before getting stranded. 10 round 5mm LEDs tell you your battery's condition.

- Kit includes PC board and all components.
- PCB: 62 x 39mm



↑	Cat.	Qty 1+	Qty 5+
KIT	KA-1683	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Headlight Reminder For Cars

Refer: Silicon Chip Magazine August 2001

Nothing is more frustrating than getting into your car early in the morning, only to discover that you had left your headlights on the night before, running your car's battery flat. Features include a modulated alarm, ignition and lights monitoring, optional door switch detection, time-out alarm and a short delay before the alarm sounds. Build and install this hassle-saving kit and enjoy a feature in your car that many luxury vehicle owners have long taken for granted. Kit includes quality solder masked PCB with overlay, case with screen printed lid and all electronic components. 12VDC.

- PCB: 78 x 49mm



↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5317	\$27.95	\$24.95

High Energy Ignition Kit for Cars

Refer: Silicon Chip Magazine November & December 2012

Use this kit to replace a failed ignition module or to upgrade a mechanical ignition system when restoring a vehicle. Suits vehicles with points, hall effect/lumenition, retractor and optical sensors (Crane and Piranha) pickup, and virtually any ignition system that uses a single coil, even those controlled by an engine management computer.

- Trigger invert option
- Adjustable dwell time
- Option for output or follow input
- Tachometer output
- Adjustable debounce period
- Dwell compensation for battery voltage
- Simplified design using ignition IGBT to switch the coil
- Coil switch-off with no trigger signal



A spark self-test feature allows the dwell to be easily adjusted to suit the coil in use. Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), pre-programmed PIC and PCB mount components for all four trigger/pickup options.

Requires: Miscellaneous mounting hardware specific to the individual installation.

Note: Hall-effect and optical pick-ups not included.

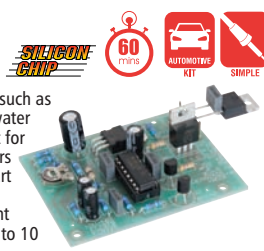
↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5513	\$55.00	\$49.45

10A 12VDC Motor Speed Controller

Refer: Silicon Chip Magazine June, 1997

Use this kit for controlling 12V DC motors in cars such as fuel injection pumps, water/air intercoolers and water injection on performance cars. You can also use it for headlight dimming and for running 12V DC motors in 24V vehicles. The circuit incorporates a soft start feature, which is used to reduce inrush currents, particularly if the kit is to control 12V incandescent lamps. As presented, the kit will control loads up to 10 amps, although the addition of an extra MOSFET transistor will double that capacity to an amazing 20 amps.

- Kit includes PCB plus all electronic components to build the 10A version
- Extra MOSFET available separately, ZT2450
- PCB: 69 x 51mm



↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5225	\$27.95	\$24.95
OPTIONAL MOSFET TO SUIT	ZT-2450	\$9.95 ea	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

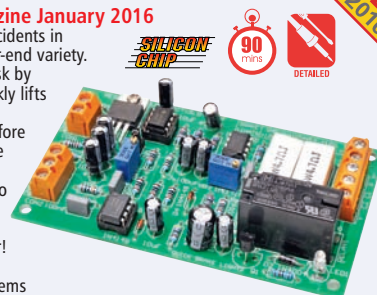
Quickbrake Brake Light Warning Kit

Refer: Silicon Chip Magazine January 2016

Over one quarter of vehicle accidents in the Sydney area are of the rear-end variety.

The Quickbrake reduces this risk by detecting when your foot quickly lifts off the accelerator pedal and activating your brake lights before your foot has even touched the brake pedal. This can increase apparent reaction time by up to 1 second, and at 100kph this equates to about 14 metres between you and the other car!

- Suitable for 12V vehicle systems
- Short form kit includes PCB and components only
- Requires wiring and UB3 enclosure
- PCB: 106.5 x 60mm



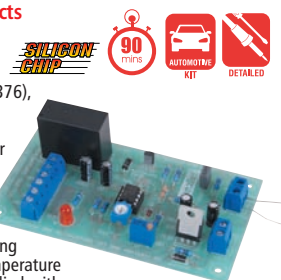
↑	Cat.	Qty 1+	Qty 5+
	KC-5532	\$39.95	\$35.90

Economy Adjustable Temperature Switch

Ref: High Performance Electronic Projects for Cars - Silicon Chip Publications.

If you don't need the display, or the huge operational range of the High Range Adjustable Temperature Switch with LCD (KC-5376), then this unit is a great alternative. It has an adjustable switching temperature up to 245°C, and it can be configured to trigger with rising or falling temperature. It has adjustable hysteresis (the difference between on/off temp), which is a great feature many other units do not possess. It can be used to operate cooling fans on a radiator or amplifier, over-temp warning lights or alarms, and much more. The small temperature sensor reacts quickly to temp changes. Kit supplied with PCB, NTC Thermistor, and all electronic components.

- PCB: 105 x 60mm



↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5381	\$35.95	\$31.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

KIT BACK CATALOGUE - AUTOMOTIVE KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
12V LED - PCB for Festoon 31mm (Interior Light)	SC 03/03	KC-5354	\$4.95
12V LED - PCB for Festoon 41mm (Interior Light)	SC 03/03	KC-5355	\$4.95
AV Booster/ Repeater Amplifier	SC 04/03	KC-5350	\$99.95
Car Air Conditioner Controller	SC 01/07	KC-5437	\$39.95
Car Turbo Timer with Case - PIC Based	SC 08/07	KC-5451	\$44.95
Delta Throttle Timer	SC Book	KC-5373	\$24.95
Digital Pulse Adjuster	SC Book	KC-5384	\$79.95
Driving Light Protector	SC 09/02	KC-5337	\$19.95
Engine Immobiliser MK II	SC 12/98	KC-5255	\$29.95
Frequency Switch	SC Book	KC-5378	\$37.95

Description	Magazine Issue	Cat.	1+
G-Force Meter	SC	KC-5504	\$49.95
Independent Electronic Boost Controller	SC Book	KC-5387	\$79.95
Intelligent Turbo timer	SC Book	KC-5383	\$44.95
LED Duty Cycle Meter for Fuel Injected Cars	SC Book	KC-5375	\$54.95
Marine Engine Speed Equaliser	SC	KC-5488	\$39.95
PCB for 31mm Festoon Style (Interior Light) Kit	SC 03/03	KC-5354	\$4.95
PCB for 41mm Festoon Style (Interior Light) Kit	SC 03/03	KC-5355	\$4.95
Quick Brake - Emergency Light Trigger	SC Book	KC-5373	\$24.95
Turn Your Car Into A Volvo	SC 08/99	KC-5273	\$39.95
Voltage Monitor	SC 05/06	KC-5424	\$22.95

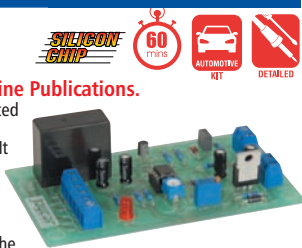
PROJECTS & LEARNING AUTOMOTIVE & MARINE KITS

AUTOMOTIVE KITS (CONTINUED)

Universal Voltage Switch

Refer: High Performance Electronic Projects for Cars - Silicon Chip Magazine Publications.

This is a universal module which can be adapted to suit a range of different applications. It will trip a relay when a preset voltage is reached. It can be configured to trip with a rising or falling voltage, so it is suitable for a wide variety of voltage outputting devices eg., throttle position sensor, air flow sensor, EGO sensor. It also features adjustable hysteresis (the difference between trigger on/off voltage), making it extremely versatile. You could use it to trigger an extra fuel pump under high boost, anti-lag wastegate shutoff, and much more. Kit supplied with PCB, and all electronic components.



• PCB: 105 x 60mm.

↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5377	\$34.95	\$31.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Threshold Voltage Switch

Refer: Silicon Chip Magazine July 2014

A simple but versatile device to switch a relay when its input voltage crosses a threshold. Use it to prevent a lead-acid battery from being over-charged or in automotive applications to trigger an extra fuel pump under high boost, anti-lag waste-gate shutoff for example. A PCB mount 12V DPDT relay is supplied but the circuit caters for other types depending on the voltage and current you want to switch. In conjunction with a standard battery charger and suitable resistor, the device can also be used to trickle charge a lead-acid battery. Kit supplied short-form with double sided, solder-masked and screen-printed PCB, onboard relay and electronic components. Cabling and case not included.



- 5 - 24VDC operation
- Adjustable trigger threshold
- Trigger on high or low voltage
- Output state indicator LEDs
- Multiple relay options (Kit supplied with onboard relay)
- PCB size: 107 x 61mm

Optional relays:

24V 12V DPDT PCB Relay: SY-4053 30A 12V SPST Horn Relay: SY-4040
30A 12V SPDT Horn Relay: SY-4070 60A 12V SPDT Horn Relay: SY-4074

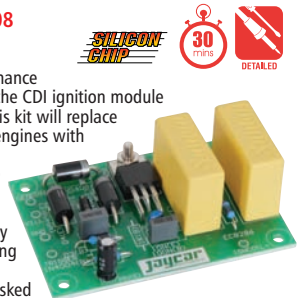
↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5528	\$34.95	\$31.45

AUTOMOTIVE - MOTOR BIKE

Capacitor Discharge Ignition for Motor Bikes

Refer: Silicon Chip Magazine May 2008

Many small petrol engines fitted to modern motor bikes use a capacitor discharge ignition (CDI) to improve performance and enhance reliability. The only downside of this is that if the CDI ignition module fails, a replacement can be very expensive. This kit will replace many failed factory units and is designed for engines with separate generator & trigger coils and which generate a positive high voltage to charge the capacitor before firing. Most CDI ignitions operate this way, but there are variations. Luckily, this CDI module uses cheap and readily available parts and is worth a try before shelling out lots of hard-earned cash for a genuine replacement module. Supplied with solder masked PCB and overlay, case and components. Some mounting hardware required.



• PCB: 45 x 64mm

↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5466	\$24.95	\$22.35

AUTOMOTIVE - MARINE KITS

Ultrasonic Antifouling for Boats

Refer: Silicon Chip Magazine September/October 2010

Many of you know that you can buy imported marine growth electronic antifouling systems that cost up to \$8000. Jaycar, with Silicon Chip have developed a similar system based on this technology and information in the public domain. This project uses the same ultrasonic waveforms and virtually identical ultrasonic transducers mounted in sturdy polyurethane housings. By building yourself you save a fortune! Standard unit consists of control electronic kit and case, pre-built ultrasonic transducer, potting and gluing components and housings. The single transducer design of this kit is suitable for boats up to 10m (32ft); boats longer than about 14m will need two transducers and drivers. Basically all parts supplied in the project kit including wiring. (Price includes epoxies).



- 12VDC (Could be powered by a solar panel/wind generator)
- Suitable for power or sail
- Works with aluminium and fibreglass boats (not suitable for timber, ferro cement or fibreglass foam sandwich construction)
- Output frequency range: 19.08 - 41.66kHz in 14 bands with 200ns steps.
- Frequency sweep in each band: 12 frequencies ranging from 80Hz spacings at 20kHz to 344Hz steps at 40kHz
- Signal burst period: 600ms at 20kHz, 300ms at 40kHz (12000 cycles/ burst)
- Output drive: 250VAC
- Supply Voltage: 11.5V to 16V maximum
- Current drain: 220mA average at 12V driving a 3nF load
- PCB: 78 x 104mm



Now includes pre-built transducer

See our assembled Ultrasonic Antifouling Devices on page 514

↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5498	\$269.00	\$245.00

HOUSEHOLD KITS

Garbage & Recycling Reminder

Refer: Silicon Chip Magazine January 2013

Easy to build kit that reminds you when to put which bin out by flashing the corresponding brightly coloured LED. Up to four bins can be individually set to weekly, fortnightly or alternate week or fortnight cycle. LEDs will flash for up to 18 hours or when you press the clear button. Features coloured LEDs to match bin lid, disable function for any LED, easy to program, optional individual day programming, week advance facility, 15 minute advance or hold facility, powered by 3V lithium cell, and low power drain. Kit supplied with silk-screened PCB, black enclosure (83 x 54 x 31mm), label, pre-programmed PIC, battery & PCB mount components.



• PCB: 75 x 47mm

↑	Cat.	Qty 1+	Qty 5+
KIT	KC-5518	\$33.95	\$29.45

AUTOMATIC ACCOUNT

For Schools, Government Departments, Public Companies, Radio & TV Stations

KIT BACK CATALOGUE - COMPUTER KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
AVR Adaptor Board for KC-5340	SC 03/06	KC-5421	\$34.95
PC Infrared Transceiver Kit	SC 12/01	KC-5323	\$21.95
PC IR Remote Control	SC 08/03	KC-5366	\$39.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
PIC Programmer Checkerboard	SC 02/01	KC-5307	\$99.95
Serial Programmer for DSPIC30F PIC Controller	SC 05/08	KC-5467	\$74.95
SD/MMC Card Webserver In a Box	SC 11/09	KC-5489	\$89.95

HOUSEHOLD KITS (CONTINUED)

433MHz Remote Switch

Refer: **Silicon Chip Magazine January 2009**

Suitable for remote control of practically anything up to a range of 200m, for example, as a replacement for a dead garage door opener. The receiver has momentary or toggle output and the momentary period can be adjusted. The receiver can also be used to drive a 12 volt relay - you'll need to add a 12 volt source. Up to five receivers can be used in the same vicinity and spare transmitter kits are available: KC-5474. A versatile kit with endless applications. Short-form kit contains two PCBs and all specified components.

- 433MHz
- Requires case and 9 -12VDC
- Extra transmitter kit: KC-5474
- PCBs: Tx: 85 x 63mm
Rx: 79 x 48mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5473	\$47.95	\$42.95

TempMaster MK3 - Electronic Thermostat

Refer: **Silicon Chip Magazine August 2014**

This electronic thermostat is ideal for converting a chest freezer into an energy-efficient fridge, converting a fridge into a wine cooler or controlling heaters in home-brew setups, hatcheries and fish tanks. It controls the fridge/freezer or heater directly via its power cable, so there's no need to modify its internal wiring. It can even be adapted to control 12V or 24V fridges or freezers.

An improvement on our popular KC-5476 TempMaster MK2 designed in Feb 2009. It is easier to adjust, has a wider temperature range, uses less power, and is virtually immune to relay chatter problems.

- Temperature range: -23 degrees C to 47 degrees C
- Low quiescent power consumption to below 45mW (1.08Wh/day)
- PCB size: 80 x 104mm

Kit supplied short-form with silk-screened PCB, 30A SPST relay, temperature sensor with clamp assembly and components. You'll need to add your own 240V GPO, fused IEC socket, cabling and case. 12V 150mA power required.

	Cat.	Qty 1+	Qty 5+
KIT	KC-5529	\$39.95	\$35.90

Mains Timer Kit for Fans & Lights

Refer: **Silicon Chip Magazine August 2012**

This simple circuit provides a turn-off delay for a 230VAC light or a fan, such as a bathroom fan set to run for a short period after the switch has been turned off. The circuit consumes no stand by power when load is off. Kit supplied with PCB, case and electronic components. Overall timing period is set by capacitor C1. Supplied with 100nF for a delay of 1, 5, 10 or 20 minutes set by one of 4 links.

For alternate times purchase the following capacitors:

C1	LK1	LK2	LK3	LK4
330nF	1 hour	30 mins	15 mins	4 mins
220nF	45 mins	20 mins	10 mins	2.5 mins
150nF	30 mins	15 mins	7.5 mins	2 mins
100nF*	20 mins	10 mins	5 mins	1 min
22nF	4 mins	2 mins	1 min	15 sec
15nF	3 mins	1.5 mins	45 sec	10 sec
4.7nF	1 min	30 sec	15 sec	5 sec

- 100nF supplied
- Handles loads up to 5A
- PCB: 60 x 76mm

	Cat.	Qty 1+	Qty 5+
KIT	KC-5512	\$42.95	\$38.45



Temperature Switch

Ideal for turning fans or heaters on at certain temperatures.

This kit operates a relay when a preset temperature is exceeded and drops-out the relay when temperature drops. The relay included is capable of switching small currents only, so a larger relay or switching device should be employed if switching mains voltages or heavy currents. Ideal as a thermostat, ice alarm, hydroponics applications, etc. A small trimpot is used to adjust the cutout temperatures for the relay in the range of approx -30 to +150° C.

- PCB NTC thermocouple and components
- 12VDC, 100mA
- PCB: 56 x 28mm



	Cat.	Qty 1+	Qty 5+
KIT	KG-9140	\$24.95	\$22.35
12VDC PLUGPACK TO SUIT	MP-3147	\$17.95 ea	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

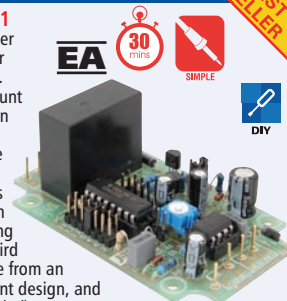
The 'Flexitimer'

Refer: **Electronics Australia March 1991**

Now in its third revision by Jaycar, the Flexitimer uses a 555 timer coupled with a binary counter to create a simple and consistent timing circuit. In the original one-shot mode the timer will count up to the set point and switch the relay once. In the additional interval mode the timer will continue switching the relay at each recurrence of the set point. The circuit can be set at 11 time points with the minimum being 7 seconds and each step doubling the time to a maximum of 2 hours. Other times are possible by changing components C1, R1, and R2. Features of the third revision include a restarting the one-shot mode from an external switch or signal, a more energy efficient design, and space on the PCB for terminal blocks (not included).

- Requires 12- 15V DC (use Cat. MP-3147 plugpack) / Optional UB5 case (HB-6015)
- PCB Dimensions: 74 x 47mm

	Cat.	Qty 1+	Qty 5+
KIT	KA-1732	\$22.95	\$20.35
12VDC PLUGPACK TO SUIT	MP-3147	\$17.95 ea	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	



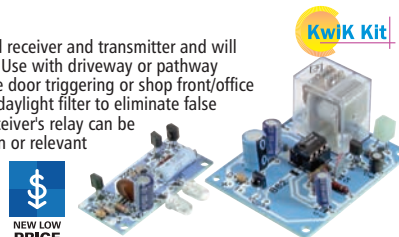
18m IR Light Barrier

This kit consists of an infrared receiver and transmitter and will shoot an IR beam 18 meters. Use with driveway or pathway monitoring, automatic garage door triggering or shop front/office entry monitoring. Includes a daylight filter to eliminate false triggering in sunlight. The receiver's relay can be used to trigger an alarm, siren or relevant triggering device.

- TX requires 9VDC 90mA;
- RX 12VDC 100mA.

Limited Stock

	Cat.	Qty 1+	Qty 5+
KIT	KG-9096	\$39.95	\$35.90



Liquid Level Sensor

When two contacts are shorted by liquid, an LED will illuminate. Use in applications such as an overflow alarm and rain detector. Connect Relay Card KG-9142 for a relay output to operate lights, sirens or other warning devices.

- Project requires 9VDC.
- Kit supplied with Kwik Kit PCB and all electronic components.
- PCB: 45 x 15mm

	Cat.	Qty 1+	Qty 5+
KIT	KG-9138	\$9.95	\$8.75
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	



KIT BACK CATALOGUE - HOUSEHOLD KITS

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Description	Magazine	Issue	Cat.	1+
Door Bell Remote Control	SC	09/04	KC-5397	\$14.95
Driveway Sentry	SC	11/04	KC-5402	\$179.00
Jacob's Ladder High Voltage Display Kit	SC	09/95	KC-5191	\$34.95
Remote Control Digital Timer	SC	08/10	KC-5496	\$39.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine	Issue	Cat.	1+
UHF Remote Controlled Main Switch	SC	02/08	KC-5462	\$99.95
V8 Sounding Doorbell - Short Form	SC	01/05	KC-5406	\$49.95
Water Tank Level Meter Telemetry Base Station	SC	01/08	KC-5461	\$84.95

POWER KITS

Soft Start Kit for Power Tools

Refer: Silicon Chip Magazine July 2012

This kit stops that dangerous kick-back when you first power up an electric saw, router or other mains-powered hand tool. Place it in line with the power tool's mains power cord and when you squeeze the power tool's trigger it will slowly spin up and be at full power after about a second. This soft start process can help prevent damage to the job your working on, and to yourself when kick-back torque jerks the power tool out of your hand. Kit supplied with PCB, screen printed case, 2m power cord and specified electronic components.

- 240VAC
- Minimum load power: 100W
- Maximum load current: 10A
- PCB: 81 x 59mm



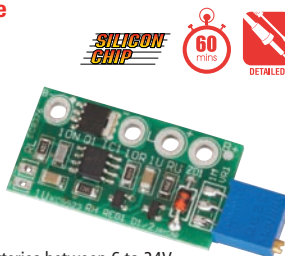
	Cat.	Qty 1+	Qty 5+
KIT	KC-5511	\$55.00	\$49.45

Battery Saver Kit for Rechargeable Lithium & SLA Batteries

Refer: Silicon Chip Magazine September 2013

This tiny circuit fits in between the battery and load and cuts off the power when the battery becomes flat to prevent the battery over-discharging and becoming damaged. Suitable for use with cordless power tools, emergency lights, small to medium UPS (up to about 300VA) and a wide variety of other devices.

- Suits most SLA, Li-ion, Li-Po and LiFePO4 batteries between 6 to 24V
- Uses very little power (<5uA)
- Handles 20A continuous, 30A peak (Charge or discharge)
- Cut-off voltage adjustable from 5.25 to 25.5V
- 0.3 - 2V hysteresis, depending on battery type and voltage
- Small PCB to fit in small spaces (38 x 18.5mm)
- Battery can be recharged once cut-out has engaged (maximum 1.5A)



SMD
PRE-SOLDERED

There is also provision for connecting an LED or external buzzer (not included)

Supplied with double sided, soldermasked and screen-printed PCB with SMDs pre-soldered*, voltage setting diodes and resistors, and components.
PCB size: 34 x 18.5mm

- Note: We've pre-soldered all of the surface mount components to save you time and frustration, apart from the three voltage setting resistors.

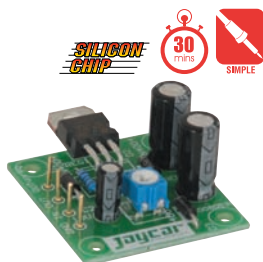
	Cat.	Qty 1+	Qty 5+
KIT	KC-5523	\$24.95	\$22.50

1.3V to 22VDC 1A Voltage Regulator

Refer: Silicon Chip Magazine May 2007

This handy voltage regulator can provide up to 1,000mA at any voltage from 1.3 to 22VDC. Ideal for experimental projects or as a mini bench power supply. Kit supplied with PCB and all electronic components.

- Heatsink may be regulated depending on output current.
- PCB: 38 x 35mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5446	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

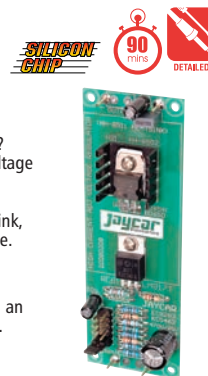
3V, 5V, 6V, 9V, 12V or 15V 4A Improved Low Voltage Regulator

Refer: Silicon Chip Magazine May 2008

Need to operate a CD, DVD or MP3 player from the cigarette lighter socket in your car? Or perhaps run some powered speakers from the power supply inside your PC? The odds are you'll need this little adaptor to step the voltage down. It has a push-on jumper shunt to select one of six common output voltages 3V, 5V, 6V, 9V, 12V or 15V and, when used with an appropriate input voltage and heat sink, can deliver up to four amps at the selected output voltage. Kit includes PCB and all specified components.

Please note that to ensure trouble free 4 amp output., a heatsink with a thermal resistance of 1.4°C per watt, and an input voltage 3VDC above the output voltage is required.

- PCB: 108 x 37mm



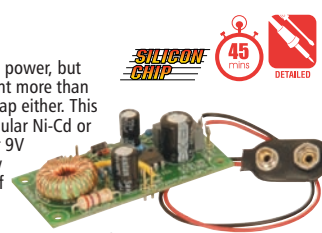
	Cat.	Qty 1+	Qty 5+
KIT	KC-5463	\$19.95	\$17.70

3V to 9V DC to DC Converter

Refer: Silicon Chip March 2004.

9V batteries are a great source of portable power, but let's face it - they don't last long if you want more than a few milliamps, and they are not real cheap either. This great little converter allows you to use regular Ni-Cd or Ni-MH 1.2V cells, or Alkaline 1.5V cells for 9V applications. Using low cost, high capacity rechargeable cells, the kit will pay for itself in no-time! You can use any 1.2-1.5V cells you desire. Imagine the extra capacity you would have using two 9000mAh D cells in replacement of a low capacity 9V cell. Kit supplied with PCB, and all electronic components.

- PCB: 59 x 29mm



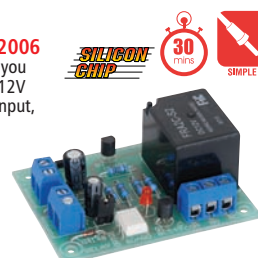
	Cat.	Qty 1+	Qty 5+
KIT	KC-5391	\$18.95	\$16.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

DC Relay Switch

Refer: Silicon Chip Magazine November 2006

An extremely useful and versatile kit that enables you to use a tiny trigger current - as low as 400uA at 12V to switch up to 30A at 50VDC. It has an isolated input, and is suitable for a variety of triggering options, including an AC or oscillating signal. It also has a relay-on LED indicator.

- PCB, relay and components.
- 12VDC 150mA.
- PCB: 46 x 61mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5434	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

12VDC Relay Card

Add a relay output to your equipment.

This kit will close a relay's contacts with as little as 5mA to trigger the circuit. Literally any kit you see on these pages that uses an LED as a trip-condition indicator, can be used with this nifty project. Use the relay to sound buzzers, switch on lights, operate solenoids, trigger alarms, etc. Operation: common ground - output LED to ground

- Kit includes Kwik Kit PCB, relay plus electronic components.
- LED cathode must be connected to ground.
- PCB: 45 x 17mm.



	Cat.	Qty 1+	Qty 5+
KIT	KG-9142	\$12.95	\$11.35

KIT BACK CATALOGUE - LIGHTING KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
12VDC Emergency Lighting Controller	SC 01/08	KC-5456	\$69.95
Basketball Scoreboard & Console - Wireless	SC 03/05	KC-5408	\$799.00
Basketball Scoreboard Extra Scoreboard - Wireless	SC 03/05	KC-5409	\$649.00

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
Bass Blazer Bar Graph Display	SC 02/01	KC-5305	\$49.95
Luxeon LED Star Module Driver	SC 05/04	KC-5389	\$29.95

POWER KITS (CONTINUED)

LED Battery Voltage Indicator

Refer: Electronics Australia Sept 1995
Quick battery condition indication.

This tiny circuit measures just 25mm x 25mm and will provide power indication and low voltage indication using a bi-colour LED, and can be used in just about any piece of battery operated equipment. The circuit is suitable for equipment powered from about 6-30VDC. With a simple circuit change, the bi-colour LED will produce a red glow to indicate that the voltage has EXCEEDED a preset value.

- PCB, bi-colour LED and components
- 6-10VDC 3-8mA
- PCB: 25 x 24mm



	Cat.	Qty 1+	Qty 5+
KIT	KA-1778	\$12.95	\$11.35
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Universal +/- 15VDC 1A Power Supply Regulator

Refer: Silicon Chip Magazine March 2011

This is an upgraded version of the original universal power supply kit published in August 1988. One small board and a handful of parts will allow you to create either a regulated $\pm 15V$ rail or $\pm 15VDC$ single voltage from a single winding or centre tap transformer (not included). Substitute different regulators to those supplied and you can alter the output voltage to your requirements. Upgrades in this design include improved parts layout and terminal blocks for inputs and outputs. Kit includes PCB and all components for 15 volt versions, transformer sold separately.

- PCB: 72 x 30mm

Power Supply Options:

- $\pm 15V$ rails from 15V AC plug pack (MP-3059) or transformer (MM-2002)
- $\pm 15V$ rails from 30V AC centre tapped transformer (MM-2007)
- $\pm 15VDC$ from a single or centre tap transformer.
- Different voltages using 78xx and 79xx series regulators (not included)



	Cat.	Qty 1+	Qty 5+
KIT	KC-5501	\$17.95	\$15.95
TRANSFORMER TO SUIT	MM-2002	\$11.95 ea	
TRANSFORMER TO SUIT	MM-2007	\$8.95 ea	
PLUGPACK TO SUIT	MP-3059	\$29.95 ea	

12/24VDC 20A Motor Speed Controller

Refer: Silicon Chip Magazine June 2011

Control the speed of 12 or 24VDC motors from zero to full power, up to 20A. Features optional soft start, adjustable pulse frequency to reduce motor noise, and low battery protection. The speed is set using the onboard trimpot, or by using an external potentiometer (available separately).

- Supplied with solder masked PCB with overlay and all onboard electronic components
- Optional 10K external potentiometer: use RP-3510
- PCB: 106 x 60mm



	Cat.	Qty 1+	Qty 5+
KIT	KC-5502	\$43.95	\$38.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details



240V 10A Deluxe Motor Speed Controller

Refer: Silicon Chip Magazine May 2009

Another motor speed controller? This one is a little bit different and offers boutique performance in the world of speed controllers. While the simpler circuit of our other motor controller kit (KC-5477) will control a motor's speed fairly well, it can't provide maximum speed as the output voltage is limited to about 160VAC maximum. It also doesn't provide great speed regulation and torque at low speeds. The deluxe kit addresses all these issues and provides full speed control from near zero to maximum RPM, good speed regulation under load, very smooth low speed operation and is rated for devices up to 2300W. It also has soft-start to eliminate the "kick" from larger power tools and has interference suppression filtering, fuse protection and over-current protection with limiting.

This kit really is the duck's guts for motor speed control. The case has the tricky cutouts pre-machined, but a little bit of extra drilling is required to complete the project.

- Overlay PCB and all components.
- Machined case included
- PCB: 112 x 142mm



Note: Not for use with Induction Motors (see KC-5509 in the Kit Back Catalogue below)

	Cat.	Qty 1+	Qty 5+
KIT	KC-5478	\$119.00	\$106.95

240V 10A Motor Speed Controller Kit with Soft Start

Refer: Silicon Chip Magazine Feb/Mar 2014

A significant improvement on our successful KC-5478 10A Motor Controller Kit. Designed for controlling the speed of power tools such as electric drills, lawn edgers, circular saws, routers or any other appliance with a universal (brush-type) motor, rated up to 10A. The new design is easier to build, has a smoother control, more "grunt" at low speed, features soft start to avoid dangerous kick-back, and improved overload protection. The case has the tricky cut-outs pre-machined, but a little bit of fine tuning may be required to complete the project. Kit includes screen printed machined case, double-sided PCB, GPO, programmed micro and electronic components.

- Extremely smooth and precise motor speed control
- Speed can be controlled from zero to maximum
- Superb speed regulation under load
- Adjustable speed regulation with feedback control
- Excellent low-speed motor operation
- 2300W (10A) rating
- Cycle-by-cycle current overload protection
- Over-current limiting
- Soft starting
- NTC Thermistor for initial surge current limiting
- Fused protection
- Rugged case with interference suppression included
- For 230VAC brush (universal) motors
- Rating: 10A, 230VAC
- Speed adjustment: Zero to motor's maximum
- PWM frequency: 980Hz
- Cycle-by-cycle current limiting: 23A peak
- Average current limiting: 15A
- Soft start rate: Up to 2.54s from zero to full speed
- NTC thermistor: 10-ohm at 20°C, <0.1-ohm@10A



Note: Not suitable for inducted or shaded-pole motors

	Cat.	Qty 1+	Qty 5+
KIT	KC-5526	\$159.00	\$142.95

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

KIT BACK CATALOGUE - POWER KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+	Description	Magazine Issue	Cat.	1+
12VDC-240VAC Inverter - Super Simple	Kwik Kit	KG-9006	\$19.95	Battery Zapper MkII Add-on	SC	05/06	KC-5428 \$59.95

SCI-FI KITS

Jacob's Ladder High Voltage Display Kit MK2

Refer: Silicon Chip Magazine April 2007

With this kit and the purchase of a 12V ignition coil (available from auto stores and parts recyclers), create an awesome rising ladder of noisy sparks that emits the distinct smell of ozone. This improved circuit is suited to modern high power ignition coils and will deliver a spectacular visual display. Inspired by the good doctor's laboratory in the Frankenstein movie, use this kit for theatre special effects or just to impress your friends.



Kit includes PCB with overlay, pre-cut wire/ladder and all electronic components.

- 12V automotive ignition coil and case not included
- 12V car battery, 7Ah SLA or >5Amp DC power supply required and not included.
- PCB: 170 x 76mm

Warning: The Jacob's Ladder Kit uses potentially dangerous voltage.

	Cat.	Qty 1+	Qty 5+
KIT	KC-5445	\$47.95	\$42.95

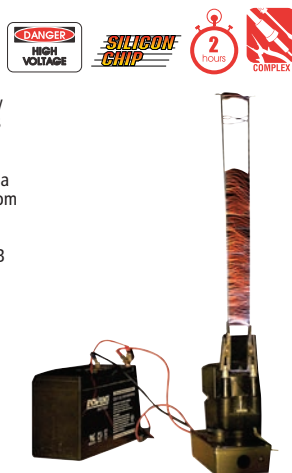
Jacob's Ladder MK3

Refer: Silicon Chip Magazine February 2013

A spectacular rising ladder of bright and noisy sparks for theatre special effects or to impress your friends. This improved circuit has even more zing and zap than it's previous design from April 2007 and requires the purchase of a VS Commodore 12V ignition coil (available from auto stores and parts recyclers). Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), pre-programmed PIC, PCB mount components and pre-cut wire/ladder.

- Powered from a 12V 7Ah SLA or 12V car battery (Note: Battery not included).

Warning: The Jacob's Ladder Kit uses potentially dangerous voltage.



	Cat.	Qty 1+	Qty 5+
KIT	KC-5520	\$59.95	\$53.95

SECURITY PROJECTS

Infrared Floodlight

Let your CCD camera see in the dark! This infrared light is powered from any 12-14VDC source and uses 32 x infrared LEDs to illuminate an area of up to 5-metres (will vary with light conditions). The PCB measures 56 x 75mm and draws a current of about 300mA.

- Kit is supplied with silkscreened/ gold plated/ solder-masked PCB, 32 x Infrared LEDs and all electronic components. Use our plugpack supply, MP-3282.
- Not suitable for colour CMOS cameras.
- PCB: 74 x 55mm



	Cat.	Qty 1+	Qty 5+
KIT	KG-9068	\$19.95	\$17.95
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

KIT BACK CATALOGUE - SECURITY KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine	Issue	Cat.	1+
50 Metre IR Light Barrier	Kwik Kit		KG-9196	\$49.95
Alarm Raucous	SC	01/02	KC-5327	\$29.95
Annunciator Kit	SC	12/05	KC-5420	\$59.95
Driving Light Anti-Theft Kit	SC	09/02	KC-5337	\$19.95

SILICON CHIP MAGAZINE

Get your SILICON CHIP at Jaycar

Silicon Chip is Australia's world-class magazine for the electronics enthusiast. As well as a great range of fun DIY kits, SILICON CHIP has interesting features articles and popular columns such as "Serviceman's Log" and "Circuit Notebook" etc.

Jaycar gets its stock of SILICON CHIP straight off the printing press, so we usually have it a couple of days earlier than the newsagents.

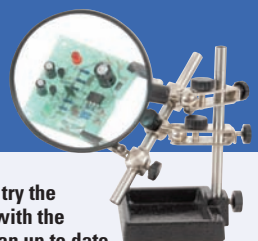
Don't forget to call in to a Jaycar store for the latest issue hot off the press.



	Cat.	Qty 1+
	BE-5025	\$9.95

CAN'T FIND THE KIT YOU'RE LOOKING FOR?

KIT BACK CATALOGUE



If you can't find what you're looking for, try the Jaycar Kit Back Catalogue. To keep up with the constant flow of new kits and maintain an up to date in-store line-up of projects, older and slow moving kits are returned to our central warehouse. We have included in this catalogue a number of the Kits that form our Back Catalogue. The range is divided up into sections based on the bottom of the kit pages. In this listing is included a brief description, the reference magazine and issue date of the article, a catalogue reference number and a unit price.

Magazine Icons



Electronics Australia
(EA)



Silicon Chip Magazine
(SC)



Range of easy to assemble
kits (no articles available)
(KK)

Issue is referenced by month then year (MM/YY). If the article ran over several months only the first month is referenced.

DOZENS OF KITS LISTED ON THE BOTTOM OF MOST KIT PAGES



MORE INFO
ONLINE

For the absolutely latest list refer to our website
www.jaycar.com.au/kitbackcatalogue

Back catalogue kits are not normally available in Jaycar Stores; you can ONLY access information about them on our website.

Three easy ways to order these Kits:

1. Order online at www.jaycar.com.au
2. Call our Free Call Order Hotline on 1800 022 888
3. Use the order form on page 527 and fax it to us

KIT BACK CATALOGUE - SCI-FI KITS

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine	Issue	Cat.	1+
IR Light Barrier 18 Metre	Kwik Kit		KG-9096	\$39.95
Raucous Alarm	SC	02/02	KC-5327	\$29.95
Jacob's Ladder High Voltage Display Mk1	SC	12/95	KC-5191	\$34.95
Starship Enterprise Door Sound Simulator	SC	05/06	KC-5423	\$39.95

TEST EQUIPMENT

USB Port Voltage Checker

Refer: **Silicon Chip Magazine July 2013**

An easy way to test a USB port to see if it is dead, faulty or incorrectly wired to help prevent damaging a valuable USB device you plan to connect. Voltage is indicated using three LEDs. The complete project can be protected using the supplied clear heatshrink tubing. Kit supplied with double sided, soldermasked and screen-printed PCB with SMDs pre-soldered, clear heatshrink, USB connectors and components for USB 2.0 & USB 3.0.



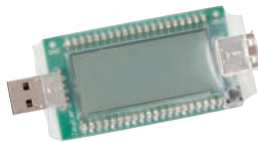
- PCB: 44 x 17mm

	Cat.	Qty 1+	Qty 5+
KIT	KC-5522	\$33.95	\$29.45

USB Power Monitor

Refer: **Silicon Chip Magazine December 2012**

Plug this kit inline with one USB device to display the current that is drawn at any given time. Check the total power draw from an un-powered hub and its attached devices or what impact a USB device has on your laptop battery life. At the touch of a button the 4-digit LCD panel can display current, voltage or power. It is auto-ranging and will read as low as a few microamps and up to over an amp. It also features display flip-mode, mode memory and digital calibration.



- Measurement modes: current, voltage, power
- Current resolution: 1uA (0-10mA), 1mA (10mA-1A)
- Voltage resolution: 10mV (4.5-5.5V)
- Power resolution: 10uW (0-10mW), 1mW (10mW-1W), 10mW (1-5W)
- Current precision: $\pm 2.5\% \pm 0.1\text{mA}$ (mA range), $\pm 5\% \pm 10\text{uA}$ (uA range)
- Voltage precision: $\pm 2.5\% \pm 10\text{mV}$
- Power precision: $\pm 5\% \pm 0.1\text{mW}$
- Load voltage drop: typically less than 50mV
- Power consumption: 5.3mA/26mW

Kit supplied with double sided, soldermasked and screen-printed PCB with SMDs and pre-programmed micro pre-soldered, LCD screen, and components.

- PCB: 65 x 36mm

	Cat.	Qty 1+	Qty 5+
KIT	KC-5516	\$59.95	\$53.95

Digital Multimeter Kit

Learn everything there is to know about component recognition and basic electronics with this comprehensive kit. From test leads to solder, everything you need for the construction of this meter is included together with a detailed manual. With test questions and schematic supplied in the manual, the kit can be geared to an individual or class learning environment, making it an excellent choice for first year trade apprentices. Kit includes DMM case, LCD, solder, battery, test leads, PCB, comprehensive 18 page learning manual and electronic components.



- All you'll need is a soldering iron.
- Meter dimensions: 67(W) x 123(H) x 5(D)mm

Obviously we have a HUGE range of ready to go DMMs in our Test Section on page 13

	Cat.	Qty 1+	Qty 5+
KIT	KG-9250	\$24.95	\$22.35

Transistor Tester

Refer: **Electronics Australia September 1983**

Have you ever unsoldered a suspect transistor only to find that it checks OK? Troubleshooting exercises are often hindered by this type of false alarm. You can avoid these hassles with the In-Circuit Transistor, SCR and Diode Tester. The kit does just that, test drives WITHOUT the need to unsolder them from the circuit! VERY HANDY! Kit includes a Jiffy box, battery and electronic components and panel showing truth table for device checking.



- PCB: 70 x 57mm

	Cat.	Qty 1+	Qty 5+
KIT	KA-1119	\$29.95	\$26.90

PRE-ASSEMBLED MODULES - AMPLIFIERS

Mono Amplifier Module

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9V supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-9VDC and is smaller than a 9V battery, allowing it to fit into the tightest of spaces.

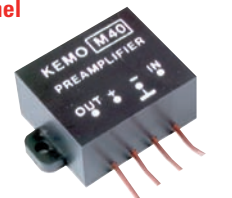


Specifications	AA-0373
Power	4 - 9VDC
Dimensions	65(L) x 35(W) x 20(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA-0373	\$11.95	\$10.70	\$9.50

Universal Preamplifier Module - 1 Channel

For microphones and diverse uses. This mini-module is simply connected between a power amplifier and a weak signal source (e.g. microphone).



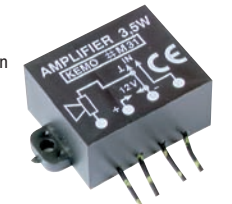
Specifications	AA-0220
Operating voltage	9 to 24VDC
Frequency response	10Hz to 100kHz
Input	2-50mV
Output	200mV - 1V
Dimensions	30 x 25 x 15mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA-0220	\$24.95	\$22.45	\$19.95

Universal Amplifier Modules - 1 Channel

3.5 WATT

Ideal as a bench-test amplifier for audio sources, or even as a mono headphone amplifier, this small audio amplifier can be operated from 4.5 V up to 12 VDC. Use two for stereo.



Specifications	AA-0223 - 3.5 Watt
Output power	3.5 W (max)
Operating voltage	4.5 to 12 V
Speaker impedance	4-16 ohms
Input sensitivity	< 80mV
Frequency response	40Hz-20kHz
Dimensions	30 x 25 x 15 mm

12 WATT

Small audio amplifier module is suitable for a number of purposes and has a range of suitable input voltages and load impedances.



Specifications	AA-0225 - 12 Watt
Operating voltage	6V - 16V, 800mA (max)
Output power	12W (max) into 4-16 ohms
Frequency range	40Hz-20kHz
Input sensitivity	80mV
Dimensions	62 x 36 x 23mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
3.5W	AA-0223	\$24.95	\$22.45	\$19.95
12W	AA-0225	\$29.95	\$26.95	\$23.95

KIT BACK CATALOGUE - TEST KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

Description	Magazine Issue	Cat.	1+
LED Duty Cycle Meter for Fuel Injected Cars	SC Book	KC-5375	\$54.95
Peak-Hold Injector Adaptor	SC Book	KC-5395	\$19.95

KIT BACK CATALOGUE - SHORT CIRCUITS 3

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 130.

Description	Magazine Issue	Cat.	1+
Ultrasonic Water Tank Level Indicator	SC	09/11	KC-5503 \$74.95
Short Circuits 3 #31 Computer Driven Display	SC3		KJ-8112 \$20.95

PRE-ASSEMBLED MODULES - DC-DC CONVERTERS

Multi-Voltage Regulated Adaptor Module (Stepdown)

This module is a low-powered DC converter for many applications, for example, where you need a reliable voltage source for a portable CD player or similar battery-powered device. Another use for this adaptor is for a peripheral computer power supply to power external Blu-Ray drive, powered speakers, modems, etc. Just plug its input into your PC's internal power supply cable and get selectable regulated voltage out from 3 to 15VDC*. Output current capability is around 1.5 amps. All in all, quite a handy little module!

- Dimensions: 63(L) x 24(Dia.)mm

Note: *Input voltage MUST be larger than the required output voltage

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0372	\$9.95	\$8.75	\$7.75



PRE-ASSEMBLED REDUCER MODULE

3 Amp 24V to 12V Reducer

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

Specifications	AA-0266
Short-circuit protection	Thermal cutout.
Input voltage	24 to 26VDC
Output voltage	12VDC
Maximum load	3A
Dimensions	135(L) x 50(W) x 24(H)mm
Heatsink	50 x 100 x 30mm (rec. size) use Cat. HH-8572 or similar



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0266	\$29.95	\$26.95	\$23.95

PRE-ASSEMBLED MODULES - CARS

Battery Discharge Protector

Protects your car battery from total discharge by switching off appliances such as fridges and TV sets before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4 to 13.3 VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.

Specifications	AA-0262
Operating voltage	12VDC
Max. switching current	20A
Interrupting voltage	10.4 - 13.3VDC
Resetting voltage	approx. 0.8V (+/-0.3V) above interrupt voltage
Current consumption	< 0.7mA when OFF, < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0262	\$44.95	\$40.45	\$35.95

Fuel Mixture Display & Automotive LED Display Modules on page 507

Speedo Corrector Module for Cars

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.

Specifications	AA-0376
Power	12VDC
Dimensions	63(L) x 46(W) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0376	\$44.95	\$40.45	\$35.90

Frequency Relay Module for Cars

This module can be adapted to suit a range of different applications. It uses a standard tachometer, road speed, or many other pulse outputs to switch a relay. The switch frequency can be set to trip when it is rising or falling, and it features adjustable hysteresis (the difference between trigger on/off frequency). You could configure it to trigger water spray cooling on deceleration, shift light activation, adjustable aerodynamics based on speed, intake manifold switching and much more.

- Dimensions: 72(L) x 65(W) x 43(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0377	\$39.95	\$35.90	\$31.90

PRE-ASSEMBLED MODULES - GENERAL

Mains Motor & Lamp Controller

This module can be used for various mains rated applications including lamp dimming, soldering iron temperature adjustment and collector or split-pole motor speed control. Features a 600W continuous and 1200W peak loading capacity with adjustable potentiometer control. Please note: fluorescent, quartz and energy saving lamps, and motors with starting capacitors should not be used with this module.

- Knob included.

Specifications	AA-0346
Continuous power	600W
Maximum power	1200W
Dimensions	62 x 35 x 21mm



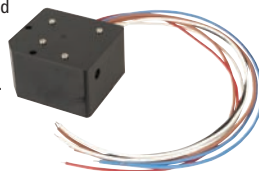
Please note that this kit operates on 240VAC mains voltage and you should be extremely careful when using these voltages. If in doubt, have an electrician check your work before applying power.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	AA-0346	\$39.95	\$35.90	\$31.90

PRE-ASSEMBLED MODULES - SENSORS & TIMERS

Programmable Interval 12V Timer Module

An easily programmed low cost electronic timer. It operates from 12VDC, with low current drain: <50mA when relay is on, <5mA when relay is off. It is link programmed for either a single ON timing period, or continuous ON/OFF cycling and can be link programmed for any of 48 different time periods, separately for ON time and OFF time. Selectable periods are 1/2/3/4/5/6/7/8/10/20/30/40/50/60/70/80 seconds, minutes and hours. It may be restarted at any time simply by pressing reset pushbutton.



Specifications	AA-0378
Power	12VDC
Dimensions	72(L) x 65(W) x 43(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0378	\$39.95	\$35.95	\$31.95

12V 3A Timer Module 2 Seconds to 23 Minutes

A versatile and useful timer module that can be set for periods of 2 seconds to 23 minutes. The start and stop functions are controlled by simple switch inputs and the relay output can control a device of up to 25V 3A.

Specifications	AA-0364
Operating voltage	12 - 15VDC
Current consumption	20mA/80mA (Relay off/on)
Relay point	Single pole, 25VDC, 3A
Time adjustment	2 sec to 23 min (+/-30%)
Dimensions	87(L) x 60(W) x 33(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0364	\$39.95	\$35.95	\$31.95

12 Volt Twilight Switch

This handy module senses the ambient light level and will switch external devices on/off at night and in the morning. The unit operates from 12VDC and its changeover contacts are rated at 25VDC @ 3A. Power consumption is only 2mA so it is ideal for automotive or battery-driven applications. Use it for garden lighting or security applications etc.

- Supplied fully assembled and tested.
- Dimensions: 72(L) x 50(W) x 32(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0323	\$27.95	\$24.95	\$22.35

PRE-ASSEMBLED MODULES - TESTERS

LED Tester

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.



Specifications	AA-0274
Operating voltage	9V battery required
Test currents	1mA, 2.5mA, 5mA, 10mA, 20mA, 50mA
Dimensions	58(L) x 44(W) x 25(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0274	\$13.95	\$12.35	\$10.95

COMPONENTS

ACTIVE COMPONENTS

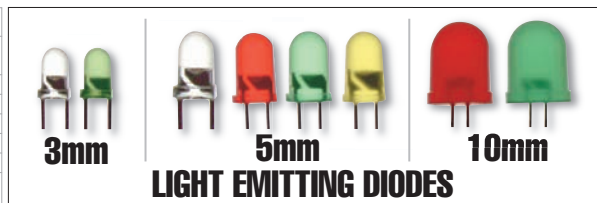
Integrated Circuits	145
Light Emitting Diodes (LEDs)	133
Transducers	142
Transistors & Diodes	139
Voltage Regulators	140

PASSIVE COMPONENTS

Capacitors	150
EMC/RFI Suppression	158
Ferrites	156
Potentiometers & Knobs	159
Resistors	154

STANDARD LEDs

Viewing Angle	Is the complete angle where the luminous intensity is half the on-axis intensity.
Wavelength	Dominant Wavelength of the light emitted in nm (nanometers). This determines the colour of the LED.
IF Typical	Continuous forward current in mA to obtain typical optical characteristics.
VF Typical	Continuous forward voltage in Volts to obtain typical optical characteristics.
IF Max	Maximum continuous forward current in mA at 25°C.
VDD Typical	Operating voltage to obtain typical optical characteristics.
VDD Max	Absolute maximum supply voltage at 25°C.
IV Typical	Light emitted from the LED is quantified by a single point, ie the on-axis luminous intensity value in mcd (millicandela) at IF Typical.



- Luminous intensity (IV) does not represent total light output from an LED. Both the luminous intensity and the spatial radiation pattern (viewing angle) must be taken into account.
- If two LEDs have the same luminous intensity value, the lamp with the larger viewing angle will have the higher total light output.
- Maximum luminous intensity can be achieved by operating the LED in pulsed mode, or maximum continuous forward current.

3mm LEDs

*Cree®

Optical and Electronic Characteristics									Max Continuous			Preferred Value Series Resistor (ohms) for							
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	IF Max (mA)	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+				
3	45	Red	Diffused	650	15	2.3	40	15	180	470	680	ZD-0100	\$0.25	\$0.23	\$0.18				
3	15	Red	Waterclear	660	20	1.8	1500	30	160	360	510	ZD-0102	\$0.70	\$0.63	\$0.49				
3	20	Red	Waterclear	625	20	2.0	2100	50	150	360	510	ZD-0104	\$1.45	\$1.30	\$0.99				
3	15	Red	Waterclear	625	20	2.1	7000	30	150	360	510	ZD-0106	\$4.45	\$3.95	\$3.05				
3	45	Orange	Diffused	625	20	1.9	35	30	160	360	510	ZD-0119	\$0.35	\$0.32	\$0.25				
3	50	Yellow	Diffused	585	20	2.1	10	20	150	360	510	ZD-0110	\$0.25	\$0.23	\$0.18				
3	20	Yellow	Waterclear	588	20	2.0	3000	50	150	360	510	ZD-0112	\$1.75	\$1.55	\$1.20				
3	15	Yellow	Waterclear	588	20	2.2	6500	50	150	360	510	ZD-0114	\$3.95	\$3.50	\$2.75				
3	50	Green	Diffused	573	20	2.3	40	20	130	330	470	ZD-0120	\$0.25	\$0.23	\$0.18				
3	20	Green	Waterclear	568	20	2.1	500	30	150	360	510	ZD-0122	\$1.45	\$1.30	\$0.99				
3	20	Green	Waterclear	520	20	3.2	6000	20	91	300	470	ZD-0124	\$6.45	\$5.75	\$4.45				
3	15	Aqua	Waterclear	505	20	3.5	4000	30	75	270	430	ZD-0126	\$5.45	\$4.90	\$3.75				
3	15	Blue	Waterclear	465	20	3.3	1500	20	82	300	430	ZD-0130	\$2.75	\$2.45	\$1.90				
3	15	Blue	Waterclear	470	20	3.2	3700	30	91	300	430	ZD-0132	\$5.95	\$5.25	\$4.15				
3	15	White	Waterclear	0.31/0.32	20	3.2	1000	20	91	300	430	ZD-0140	\$2.75	\$2.45	\$1.90				
3	20	White	Waterclear	0.31/0.32	20	3.2	4300	30	91	300	430	ZD-0142	\$3.95	\$3.50	\$2.75				

5mm LEDs

5	50	Red	Diffused	700	20	2.3	8	30	130	330	470	ZD-0150	\$0.30	\$0.27	\$0.21				
5	15	Red	Waterclear	660	20	1.7	500	30	160	360	510	ZD-0152	\$0.85	\$0.77	\$0.60				
5	15	Red	Waterclear	625	20	2.0	4000	50	150	360	510	ZD-0154	\$1.45	\$1.30	\$0.99				
5	15	Red	Waterclear	625	20	2.1	9600	50	150	360	510	ZD-0156	\$3.45	\$3.05	\$2.35				
5	15	Red	Waterclear	624*	30	2.1	23500	30	100	240	330	ZD-0293	\$5.45	\$4.90	\$3.75				
5	8	Red	Waterclear	616	50	2.1	35000	50	62	150	200	ZD-1790	\$4.45	\$3.95	\$3.05				
5	40	Orange	Diffused	635	20	2.0	10	30	150	360	510	ZD-0169	\$0.30	\$0.27	\$0.21				
5	50	Yellow	Diffused	585	20	2.1	8	30	150	360	510	ZD-0160	\$0.30	\$0.27	\$0.21				
5	15	Yellow	Waterclear	590	20	2.2	2500	20	150	360	510	ZD-0162	\$1.45	\$1.30	\$0.99				
5	15	Yellow	Waterclear	588	20	2.0	5200	50	150	360	510	ZD-0164	\$1.65	\$1.45	\$1.15				
5	15	Yellow	Waterclear	588	20	2.3	10500	50	130	330	470	ZD-0166	\$4.25	\$3.75	\$2.95				
5	15	Yellow	Waterclear	591*	30	2.1	23500	30	100	230	330	ZD-0295	\$5.45	\$4.90	\$3.75				
5	50	Green	Diffused	570	20	2.3	10	30	130	330	470	ZD-0170	\$0.30	\$0.27	\$0.21				
5	30	Green	Waterclear	525	20	3.5	7500	30	75	270	430	ZD-0172	\$2.35	\$2.09	\$1.60				
5	15	Green	Waterclear	515	20	3.5	8500	30	75	270	430	ZD-0174	\$4.25	\$3.75	\$2.95				
5	20	Green	Waterclear	525	20	3.2	12000	20	91	300	430	ZD-0176	\$5.45	\$4.90	\$3.75				
5	15	Green	Waterclear	527*	30	3.2	64600	30	62	200	300	ZD-0292	\$6.45	\$5.75	\$4.45				
5	15	Aqua	Waterclear	505	20	3.5	8500	30	75	270	430	ZD-0178	\$4.45	\$3.95	\$3.05				
5	40	Blue	Diffused	470	20	3.3	350	30	82	300	430	ZD-0185	\$2.35	\$2.09	\$1.60				
5	15	Blue	Waterclear	468	20	3.2	2500	30	91	300	430	ZD-0180	\$2.75	\$2.45	\$1.90				
5	15	Blue	Waterclear	470	20	3.2	6500	30	91	300	430	ZD-0182	\$4.45	\$3.95	\$3.05				
5	15	Blue	Waterclear	470*	30	3.2	23500	30	62	200	300	ZD-0291	\$5.45	\$4.90	\$3.75				
5	30	White	Waterclear	0.31/0.31	20	3.2	4000	30	91	300	430	ZD-0190	\$2.75	\$2.45	\$1.90				
5	20	White	Waterclear	0.31/0.32	20	3.2	7000	30	91	300	430	ZD-0192	\$3.75	\$3.30	\$2.60				
5	15	White	Waterclear	0.31/0.32	20	3.3	18000	30	82	300	430	ZD-0195	\$5.50	\$4.90	\$3.75				
5	15	White	Waterclear	0.29/0.29*	30	3.2	45000	30	62	200	300	ZD-0290	\$5.75	\$5.15	\$3.95				
5	30	UV	Waterclear	405	20	3.3	60	20	91	300	430	ZD-0260	\$5.50	\$4.90	\$3.75				

STANDARD LEDs (CONTINUED)

Optical and Electronic Characteristics								Max	Preferred Value Series							
Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic	IF Typical	VF Typical	IV Typical	Continuous	Resistor (ohms) for			Cat.	Qty 1+	Qty 10+	Qty 25+	
(mm)	(Degrees)			(nm), Co-ordinates	(mA)	(V)	(mcd)	IF Max (mA)	5VDC	9VDC	12VDC					
10mm LEDs																
10	16	Red	Diffused	635	20	2.0	8	20	150	360	510	ZD-0200	\$0.75	\$0.68	\$0.53	
10	30	Red	Waterclear	625	20	2.0	5600	50	150	360	510	ZD-0201	\$1.45	\$1.30	\$0.99	
10	30	Red	Waterclear	625	20	2.0	4500	50	150	360	510	ZD-0202	\$2.75	\$2.45	\$1.90	
10	20	Orange	Waterclear	610	20	2.4	9000	50	130	330	470	ZD-0225	\$3.45	\$3.05	\$2.35	
10	35	Yellow	Diffused	585	20	2.0	63	30	150	360	510	ZD-0210	\$0.75	\$0.68	\$0.53	
10	30	Yellow	Waterclear	588	20	2.0	6000	50	150	350	510	ZD-0211	\$1.45	\$1.30	\$0.99	
10	30	Yellow	Waterclear	588	20	2.2	4500	50	150	360	510	ZD-0212	\$2.75	\$2.45	\$1.90	
10	50	Green	Diffused	570	20	2.2	100	20	150	360	510	ZD-0205	\$0.75	\$0.68	\$0.53	
10	30	Green	Waterclear	525	20	3.1	9000	20	100	300	430	ZD-0206	\$3.95	\$3.50	\$2.75	
10	30	Blue	Waterclear	470	20	3.5	1200	30	75	270	430	ZD-0215	\$3.95	\$3.50	\$2.75	
10	30	White	Waterclear	0.25/0.26	20	3.2	5000	30	91	300	430	ZD-0220	\$3.95	\$3.50	\$2.75	

5 x 2mm Rectangular LEDs

5 x 2	155	Red	Diffused	643	20	2.3	5	20	130	330	470	ZD-0230	\$0.50	\$0.45	\$0.35
5 x 2	155	Yellow	Diffused	590	20	1.9	10	20	160	360	510	ZD-0234	\$0.50	\$0.45	\$0.35
5 x 2	155	Green	Diffused	573	20	2.3	15	20	130	330	470	ZD-0232	\$0.50	\$0.45	\$0.35

3mm Superflux

3 Superflux	90	White	Waterclear	0.29/0.29	Cree®	35	3.6	3000	35	43	160	240	ZD-0020	\$6.50	\$5.75	\$4.45
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Optical and Electronic Characteristics															Max	Preferred Values Series		
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength (nm)	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	Continuous IF Max (mA)	5VDC	9VDC	12VDC	Cat.	Qty 1 +	Qty 10 +	Qty 25 +			

Bi LEDs

Bi	3	65	Red	Diffused	605	20	2.1	1.3	30	150	360	510	ZD-0248	\$1.25	\$1.10	\$0.85
		65	Green	Diffused	570	20	2.3	1.5	30							
Bi	5	90	Red	Diffused	625	20	2.1	7.6	30	150	360	510	ZD-0250	\$1.25	\$1.10	\$0.85
		90	Green	Diffused	567	20	2.2	10	30							
Bi	10	75	Red	Diffused	625	20	2.0	10	30	150	360	510	ZD-0255	\$1.45	\$1.30	\$0.99
		75	Green	Diffused	570	20	2.1	10	30							
Bi	3	75	Orange	Diffused	625	20	2.0	4.5	30	150	360	510	ZD-0249	\$1.25	\$1.10	\$0.85
		75	Green	Diffused	570	20	2.1	6	30							
Bi	5	90	Orange	Diffused	625	20	2.1	70	30	150	360	510	ZD-0252	\$1.35	\$1.20	\$0.90
		90	Green	Diffused	568	20	2.2	80	30							
Bi	10	75	Red	Diffused	625	20	2.0	10	30	150	360	510	ZD-0256	\$1.75	\$1.55	\$1.20
		75	Green	Diffused	570	20	2.1	10	30							

Tri LEDs

Tri	5 common anode	45	Red	Diffused	625	20	2.0	600	30	150	360	510	ZD-0270	\$7.45	\$6.65	\$5.15
		45	Green	Diffused	520	20	3.5	1000	30	75	270	430				
		45	Blue	Diffused	470	20	3.5	200	30	75	270	430				
Tri	5 Superflux common anode	60	Red	Waterclear	643	20	1.8	200	20	160	360	510	ZD-0010	\$5.75	\$5.15	\$3.95
		60	Green	Waterclear	528	20	3.2	900	20	91	300	470				
		60	Blue	Waterclear	468	20	3.2	150	20	91	300	470				
Tri	5 Superflux common cathode	60	Red	Waterclear	630	20	1.8	350	20	160	360	510	ZD-0012	\$5.75	\$5.15	\$3.95
		60	Green	Waterclear	528	20	3.2	600	20	91	300	470				
		60	Blue	Waterclear	468	20	3.2	900	20	91	300	470				

Optical and Electronic Characteristics									Absolute Max	
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength (nm)	IF Typical (mA)	VDD Typical (V)	IV Typical (mcd)	VDD Max (V)	Cat.	Qty 1+ Qty 10+ Qty 25+

Flashing LEDs

Flashing	5	50	Red	Diffused	630	20	5.0	50	10	ZD-0240	\$1.45	\$1.30	\$0.99
Flashing	5	30	Red	Diffused	643	20	5.0	60	10	ZD-1785	\$2.35	\$2.09	\$1.60
Flashing	5	45	Yellow	Diffused	597	20	5.0	35	10	ZD-0244	\$1.45	\$1.30	\$0.99
Flashing	5	45	Green	Diffused	568	20	5.0	35	10	ZD-0242	\$1.45	\$1.30	\$0.99
Flashing	5	40	Blue	Diffused	470	20	5.0	900	10	ZD-0245	\$2.35	\$2.09	\$1.60
Flashing	10	50	Red	Diffused	660	20	5.0	50	10	ZD-1965	\$2.85	\$2.53	\$1.95

Tri Colour Sequencing LEDs

Tri Colour Sequencing	5	30	Red	Waterclear	625	20	4.5	500	4.5	ZD-0247	\$7.75	\$6.90	\$5.25
		30	Green	Waterclear	520	20	4.5	5000	4.5				
		30	Blue	Waterclear	470	20	4.5	2000	4.5				

RELATED PRODUCTS

LED Pack - Red

- 5-20mcd @ 20mA typical



Size	Cat.	Qty 1+	Qty 10+	Qty 25+
3mm Pkt 100	ZD-1692	\$13.95	\$12.35	\$9.75
5mm Pkt 100	ZD-1690	\$17.95	\$15.95	\$12.35

Assorted LED Pack

Consisting of 20 x 5mm red, 20 x 5mm mixed (green, yellow, orange), 40 x 3mm red, 20 x 3mm mixed (green, yellow, orange). BONUS 10 x 5mm mounting hardware AT NO CHARGE.



Size	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 100	ZD-1694	\$29.95	\$26.90	\$20.70

LED Tester

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.

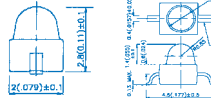
- Operating voltage: 9V (battery required)
- Test currents: 1mA, 2.5mA, 5mA, 10mA, 20mA, 50mA
- Dimensions: 58 x 44 x 25mm



Size	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0274	\$13.95	\$12.35	\$10.95

SMD TYPE LEDs - PACKS OF 10

Range of 3 colours in "Gull Wing" style package.
• Water clear lens.



↑	Pkt	Type	Cat	Qty 1+	Qty 10+	Qty 25+
Red	10	625nm - 70mcd @20mA	ZD-2000	\$3.50	\$3.15	\$2.45
Yellow	10	590nm - 40mcd @20mA	ZD-2005	\$3.95	\$3.50	\$2.75
Green	10	565nm - 100mcd @20mA	ZD-2010	\$3.50	\$3.15	\$2.45

CREE® LED LENS

Narrow Angle Lens for Cree® High Power LED

The Cree® LED technology provides tremendous light from a tiny module. Harness that light and give it direction with these lenses.

FOR CREE® XP-G

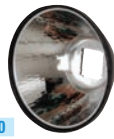
The lenses clip directly into the holes on the LED module without any additional hardware keeping the whole package to a minimal size. LED and lens together. HP-1282 & HP-1284



HP-1282

FOR CREE® MC-E

Focuses the tremendous light output from the Cree® MC-E LED module into a narrow 10° beam. Fits neatly over the MC-E module and extends 16mm in front of the emitter. LED module & lens combined is a mere 20mm in height. Dimensions: 34(Dia) x 16(H)mm HP-1280



HP-1280

↑	Type	Cat.	Qty 1+
13° Collimator Narrow Angle	XP-G	HP-1282	\$2.95
24° Collimator Wide Angle	XP-G	HP-1284	\$2.95
10° Narrow Angle	MC-E	HP-1280	\$2.95



RELATED PRODUCTS

LED Clips

- Black.
- 3mm requires a 4mm panel hole, 5mm needs a 6.35mm.
- Simply push clip in panel & insert LED



↑	Pkt	3mm	Cat.	Qty 1+	Qty 10+	Qty 25+
	Pkt 20		HP-1100	\$3.50	\$3.15	\$2.45
	Pkt 20	5mm	HP-1102	\$3.50	\$3.15	\$2.45
	Pkt 100	5mm	HP-1103	\$16.50	\$14.35	\$10.95

10MM LED BEZELS

- Black, requires a 14mm panel hole and simply snaps in. LED not included.



↑	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
	Pkt 5	HP-1110	\$8.95	\$7.95	\$6.25

LED POWER SUPPLIES

Dimmable Constant Current LED Driver Module

A compact, high quality solution from Mornsun for driving high power LEDs which require a constant current power supply. Fully potted with a special coating to reduce electromagnetic interference, this driver is quite versatile in terms of both physical fitment and electrical compatibility. Powered by 5.5-48.0VDC, they can drive up to 10 LEDs in series (input voltage must exceed LED forward voltage though), and can be dimmed either by analogue or PWM signal - meaning that even a simple potentiometer can provide dimming. Suitable for driving our new Cree® XP-G and MC-E models, however will not reach the full 1500mA drive current capacity of the Cree® XP-G. Full datasheet available on our website.

Specifications	AA-0595
Input voltage	5.5 - 48VDC
Output current	0-700mA
Dimming	Analogue or PWM signal
Efficiency	96%
Dimensions	24(L) x 14(W) x 8(H)mm



↑	Current	Cat.	Qty 1+
	0-700mA	AA-0595	\$10.95

Power Supply for Luxeon® LED Star Modules

This tiny star LED driver module provides a regulated current supply that is perfectly matched to the requirements of our Star LEDs. It will detect how many LEDs are loaded onto the output and automatically provide the correct voltage and regulated current, removing the necessity for any current-limiting resistors. The small size makes them perfect for custom lighting applications. One module can drive up to 3 star LEDs in series.



- Input Voltage: 12-13.5VAC/DC
- Dimensions: 22mm diameter.

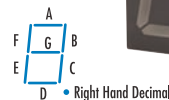
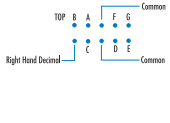
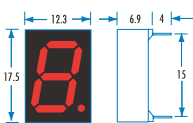


↑	Wattage	Cat.	Qty 1+
	1W	AA-0583	\$10.95

7 SEGMENT LED DISPLAYS

Small Displays - Red

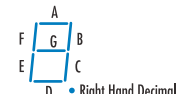
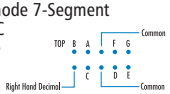
FND500 / LTS543R / S505RWB COMMON CATHODE
FND507/LTS542R/S50 RWB COMMON ANODE



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Common Cathode	ZD-1855	\$3.95	\$3.50	\$2.75
Common Anode	ZD-1857	\$3.95	\$3.50	\$2.75

Small Display - Blue

Blue Common Cathode 7-Segment Display - ASD-052C
Display colour Blue



Specifications	
Case dimensions	17.5(H) x 12.4(W)mm
Digit height	13.2mm
Forward voltage (VF)	3.5V
Power dissipation	100mW max
Forward current (If)	35mA max

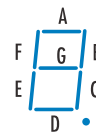
↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1856	\$7.65	\$6.75	\$5.25

Super Large Display - Red

COMMON CATHODE

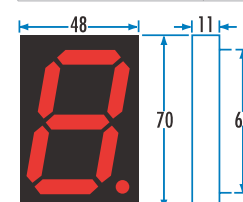
Actual numbers 2.3" (58mm) high.
Ideal for house numbers, clocks, etc.

- Red 635nm



• Right Hand Decimal

Specifications	ZD-1850
Digit height	58mm
Case dimensions	70(H) x 48(W)mm
Luminous intensity (IV)	4mcd per segment @ 10mA
Viewing angle	150°
Forward voltage (VF)	Segments 8V, decimal 2V
Face colour	Grey
Max current per segment	30mA
Forward current (If)	10mA



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1850	\$14.95	\$13.35	\$10.35

COMPONENTS

LED DISPLAYS & BEZELS

BAR GRAPHS & DISPLAYS

LED Bar Graph

5mm x 2.5mm rectangular LEDs mounted in a black housing. Ideal for VU meters or where any visual level is required.

- VU 7 Green & 3 Red

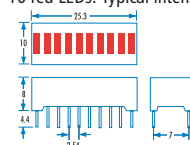


↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1702	\$5.95	\$5.25	\$4.15

DIL LED

Ten individual LED elements housed in a 20 pin package to form a compact linear bar display which may be stacked end to end to create bargraphs of different lengths. Will plug into a standard 20 pin IC socket.

10 red LEDs. Typical intensity is 2.2mcd per LED.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1704	\$4.95	\$4.45	\$3.45

11 Digit Fluoro Display

Vacuum fluorescent displays - still look the best. Each digit measures 6.0(H) x 3.5(W) mm, 11 digits in all. The display also features an apostrophe in the top right hand corner of the digits, and a semicolon (:) in the bottom in all 11 digits.

- Futaba brand
- Electrical and mechanical data is included.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1880	\$2.95	\$2.60	\$1.95

DRIVER IC ALLEGRO BRAND UDN6118A FOR FLUORO DISPLAY ABOVE.

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1882	\$9.95	\$8.75	\$6.75

4 Digit Field Effect LCD

Suitable for meters, gauges, timers, counters and 12/24hr clocks. Extremely easy to drive and no external driver IC required. 40 pin package. Use Cat PI-6470 for socket mounting (2pc required)

Specifications	ZD-1886
Driving voltage	3 volts
Digit height	12.7mm
View area	45 x 17
Display size	51 x 30.5mm
Pin spacing	2.5mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1886	\$9.95	\$8.75	\$6.75

BEZELS - LOW VOLTAGE

3mm LED Bezels - 2V

Chrome housing.
• 2V, 15 - 30mA
• Panel hole 5mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2615	\$3.45	\$3.05	\$2.35
Green	SL-2616	\$3.45	\$3.05	\$2.35
Blue	SL-2617	\$4.50	\$3.95	\$3.15

5mm LED Bezels - 2V

Chrome housing.
• 2V, 15 - 30mA
• Panel hole 8mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2610	\$2.35	\$2.09	\$1.60
Green	SL-2612	\$2.35	\$2.09	\$1.60
Blue	SL-2613	\$5.50	\$4.90	\$3.75

Mini Chrome Bezels - 12V

These are very classy and have either a bright 3mm red or green LED in the chrome casing. The casing measures only 10mm long & hole cutout of only 5mm.



- Supplied with flying leads about 100mm long
- Includes dropping resistor.

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2644	\$3.95	\$3.50	\$2.75
Green	SL-2645	\$3.95	\$3.50	\$2.75

Chrome Bezel LED - 24V

Classy chrome casing with either a red or green 3mm LED. Supplied with flying leads with resistor, 5mm hole required.

Two types available:



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Green	SL-2646	\$3.95	\$3.50	\$2.75
Red	SL-2647	\$3.95	\$3.50	\$2.75

IP67 Chrome LED Bezels - 12V

IP67 (waterproof) rated LED lamp bezel in a chrome housing. Perfect for applications where protection from dust and water ingress are required.

- 12VDC
- Panel hole: 8mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2625	\$7.95	\$6.95	\$5.50
Green	SL-2627	\$7.95	\$6.95	\$5.50

Low Voltage Bezels - 6 & 12V

Accepts Lilliput globes.
• Panel hole 10mm.
• Length 29mm.
• Requires Lilliput globes SL-2650 6V
SL-2652 12V



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2620	\$2.25	\$2.00	\$1.80
Green	SL-2622	\$2.25	\$2.00	\$1.80

Lilliput Globes to suit Bezels

- Total length 17mm.
- Width 4.5mm.
- Glass length 8mm.



↑	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	200mA	SL-2650	\$0.95	\$0.85	\$0.75
12V	120mA	SL-2652	\$0.95	\$0.85	\$0.75

Bezel Small - 12V

Red, sealed, 12 volt bright bezel for any application.

- Small size.
- Panel hole 7mm.
- Length 34mm.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2640	\$1.95	\$1.75	\$1.55

Bezel Medium - 12V

Red, sealed, ideal for cars as an indicator for driving lights, etc.

- Also suitable for burglar alarms.
- Panel cut out 10mm.
- Rectangular lens 13 x 16mm.
- Length 45mm.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2642	\$1.95	\$1.75	\$1.55

12V Bezel Large - 12V

Perfect for car alarms.
• Orange lens which measures 20 x 20mm.
• Panel hole 15mm.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange	SL-2694	\$2.95	\$2.60	\$2.30

LED BEZELS - HIGH VOLTAGE

Chrome Bezels - 240V

Very smart units.
• Length 32mm
• 70mm leads.
• Panel hole 7mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2632	\$3.45	\$3.05	\$2.75
Green	SL-2633	\$3.45	\$3.05	\$2.75

Bezel - 240V

Red, spade lug connections.
• Small round flat end
• Total length 45mm
• 10mm diameter
• Cut out hole 9mm.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2630	\$1.95	\$1.75	\$1.55

90V NE2 Neon

Would you believe it? After about 100 years of orange-red neons we now can get blue and green ones! You'll buy one out of curiosity!



- Strike voltage: 82V
- Needs 270k resistor in series for 240V operation

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange/Red	SL-2690	\$1.25	\$1.10	\$1.00
Blue	SL-2695	\$1.25	\$1.10	\$1.00
Green	SL-2696	\$1.25	\$1.10	\$1.00

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics:
PO Box 7172
Silverwater, NSW 1811
or email
to catalogue@jaycar.com

OPTOCOUPLERS

Non - Zero Crossing

- Excellent stability - IR emitting diode has low degradation
- High isolation voltage - minimum 7500VAC peak
- Underwriters Laboratory (UL) recognised - file# E90700
- Recommended for 240VAC RMS applications
- Vending machines
- Triac driver
- Motor control
- Industrial controls
- Solid state relay
- Traffic lights



Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
MOC3020/MOC3021	6	ZD-1920	\$3.85	\$3.45	\$2.75

Phototransistor Optocoupler

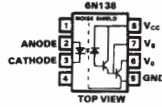
- AC line / digital logic isolator
- Digital logic / digital logic isolator
- Telephone / telegraph line receiver
- Twisted pair line receiver
- High frequency power supply feedback control
- Relay contact monitor
- Power supply monitor
- Small package size and low cost
- Excellent frequency response
- UL recognised - file# E90700



Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
4N28/4N25	6	ZD-1928	\$1.95	\$1.75	\$1.35

Darlington Optocoupler

- Low current - 0.5mA
- Superior CTR-2000%
- Superior CMR-10 kV/μs
- Double working voltage 480VRMS
- CTR guaranteed 0-70°C
- UL recognised file# E90700
- Dual channel - HCPL2730, HCPL2731
- Applications
- Digital logic ground isolation
- Telephone ring detector
- EIA-RS232C line receiver
- High common mode noise line receiver
- μP bus location
- Current loop receiver



Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
6N138	8	ZD-1940	\$4.95	\$4.45	\$3.45

SMD Optocouplers



Type	Case	Pkt	Cat	Qty 1+	Qty 10+	Qty 25+
4N35S	S01C6	10	ZD-1934	\$11.95	\$10.70	\$8.25
TLP113	S01C6	EA	ZD-1941	\$6.95	\$6.25	\$4.75

Photo Interrupter

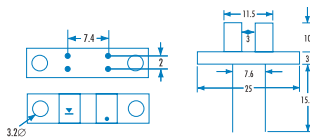
This device enables you to turn a circuit on and off optically. It consists of a moulded plastic housing with an IR LED facing a phototransistor across a gap. Any object in the gap will interrupt the IR beam and consequently switch the phototransistor on and off. The device is very fast and ideal for counting, timing or sensing. Full specs supplied with each unit.



- PCB or chassis mounting
- Low cost
- Rugged one piece construction
- Very fast

Application:

- Counter sensor
- Tachometer
- Opto ignition
- Edge sensor
- Tape end sensor.



Type	Cat	Qty 1+	Qty 10+	Qty 25+
ZD-1901		\$4.45	\$3.95	\$3.05

HALL EFFECT SWITCHES

Hall Effect Sensor

UGN3503U HALL EFFECT SENSOR IC

A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches. Applications include notch sensor, current monitor, gear tooth sensor, etc.

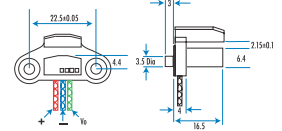


Specifications	ZD-1902
Operating voltage	4.5 - 6VDC
Supply current	Typ. 9mA
Output voltage	Typ. 2.5V DC
Output resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm

Type	Cat	Qty 1+	Qty 10+	Qty 25+
UGN3503U	ZD-1902	\$7.75	\$6.90	\$6.15

HKZ-101 Hall Effect Switch

This device is a rugged Hall effect switch designed for automotive ignition applications. This device consists of a Hall effect semiconductor sensor separated across a small gap by a magnet. In its normal state the Hall sensor (with inbuilt output transistor) is conducting. It will sink up to 40mA between the impressive temperature range of -40 to +150 degrees C. When an iron vane is introduced into the gap between the Hall element and the magnet, the output transistor switches off. The sensor is hermetically sealed, resistant to petroleum products and incorporates metal bushing mounting holes to facilitate fitting to a carrier plate, bracket etc. It is ideal as the commutator for an electronic ignition; however it has many other usage areas. Lead connections: Red V+, Black earth, Green signal (on/off).



Type	Cat	Qty 1+	Qty 10+	Qty 25+
ZD-1900		\$24.95	\$22.35	\$19.70

PRESSURE SENSOR

Pressure Differential Sensor

The ZD-1904 piezo resistive pressure sensor provides a very accurate and linear voltage output directly proportional to the applied pressure. The sensor housed a single monolithic silicon die with a strain gauge and thin film resistor network on each chip.

- 0°C to 85°C temperature compensation
- 0 to 10kPa (0 to 1.45 psi)
- 25mV full scale span



Type	Cat	Qty 1+	Qty 10+	Qty 25+
ZD-1904		\$44.95	\$40.45	\$35.90

Workbench sent to us by: Brian Jaycar Store: Gold Coast

My version of an ideal man cave.



For more details, visit:
www.jaycar.com.au/workbench

RELATED PRODUCTS

Electronics Demystified

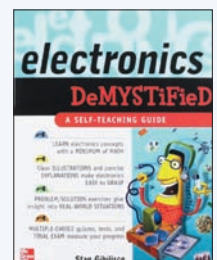
Part of the popular Demystified series, this book teaches you electronics theory, it does not include projects. If you have enjoyed the Short Circuits or Fun Way Project books and want to know more, this is your next book. It places all that project experience on a sound technical grounding. It avoids heavy mathematical formulae, but, be warned there are equations in this book. They are not seriously hard though! The book starts at simple DC circuits, goes through AC circuits, impedance, reactance, power supply concepts, semiconductor basics, amplifiers, oscillators, RF, telecommunications and finishes on antennas.

At the end of each chapter is a straightforward quiz (multiple choice) to make sure you are on top of concepts.

This is the best-written technical book on novice to moderately advanced electronics we have seen.

Read this book and understand it - you are a serious techno.

- Dimensions: 230 x 185mm.



Type	Cat	Qty 1+
Soft cover, 468 pages	BM-7106	\$39.95

COMPONENTS

IR LEDS & LASER DIODE

INFRARED LEDS

Infrared LEDs - Receivers

BP104 PHOTODIODE

Small square device measuring 4(W) x 5.4(L) x 2(D)mm.

Specifications	ZD-1947	Forward voltage	1.3V@100mA
Reverse voltage	20V max	Wavelength of max. sens	950nm
Spectral sensitivity	34uA @ 5V	Half angle	+/- 60°
Spectral range of sensitivity	800 to 1100nm	Open-circuit voltage	330mV
Dark current	2nA @ 10V	Rise and fall time	20ns @ 5V
Short-circuit current	17uA	Cathode marking	flag on leg
Capacitance	48pF		

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1947	\$4.35	\$3.90	\$2.95

5MM PHOTODIODE

Radiant sensitive area (receiving) is on the side of the device. Size 6.7(H) x 4.8(W)mm.

Specifications	ZD-1948
Reverse voltage	32V
Spectral range of sensitivity	970nm
Reverse dark current	5nA
Turn on/off time (typical)	50ns
Capacitance	25pF
Open-circuit voltage	350mV

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1948	\$1.50	\$1.35	\$1.05

INFRARED PHOTOTRANSISTOR

5mm LED with a clear transparent lens.

- Collector: Short leg
- Emitter: Long Leg

Specifications	ZD-1950	Collector dark current	100nA@10V(Vce)
NPN collector-to-emitter b'down voltage	30V	Rise and fall time	3uS @ 5V(Vce)
Emitter-to-collector breakdown voltage	5V	Power dissipation	100mW max
Collector-to-emitter saturation voltage	0.8V max		

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1950	\$1.50	\$1.35	\$1.05

IR LED RECEIVER

Consists of an infrared photo diode and signal processing circuitry, (amplifier, limiter, bandpass filter & demodulator). It will detect the modulated pulse from an IR Remote Control & give a TTL level output.

- Data sheet available - see website.

Specifications	ZD-1952	Supply voltage max	5.5V
Supply voltage	5V typ.	Arrival distance Length	12m typ.
Current consumption	0.95mA	Directivity characteristics	
Center frequency	37.9kHz	Horizontal:	45°
Horizontal	45°	Vertical:	35°

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1952	\$7.95	\$7.15	\$5.55

TSOP4136 IR RECEIVER

Consists of PIN diode, pre-amplifier, AGC, pass filter, and demodulator. The main benefits are high speed data rates, short burst transmission codes, and suits cable TV remotes.

Specifications	ZD-1953
Supply voltage	4.5-5.5V
Supply voltage max	6V
Current consumption	1.2mA
Arrival distance length	20m
Centre frequency	36kHz
Directivity characteristics	Horizontal 45°, Vertical 45°

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1953	\$2.75	\$2.45	\$1.90

MICROCHIP MILESTONES

THE LIGHT EMITTING DIODE

The LED has been a long time coming. In 1907 an experimenter in Marconi Labs in England noticed a faint glow at the junction of a "Cats Whisker" crystal set detector when it was forward biased.

In 1927 a Soviet, Oleg Yosev reported the creation of a solid state source of light, but despite wide publication of the phenomenon, nothing came of it. In 1951 a trio of researchers obtained a reliable light source from Silicon Carbide (SiC) from a pulsed battery source.

A scientist from RCA laboratories (Radio Corporation of America) obtained I.R. (Infra-Red) light emission from Gallium Arsenide and other newly minted semiconductor alloys in 1955.

The same scientist later modulated the light with a music signal and transmitted it across the lab.

Other experiments followed all with varying degrees of success.

The first visible red, 1962 GE; yellow, red/orange and 10 x factor performance improvement by 1972. High brightness, high efficiency LEDs by 1976, followed by green and yellow.

Infrared LEDs - Transmitters

3mm EMITTING DIODE

With a blue transparent lens. Similar specifications as our ZD-1945.

Specifications	ZD-1946
Forward current (If)	50mA
Peak forward current (Ip)	100mA
Forward voltage (VF)	1.3V
Power dissipation (Pd)	100mW max

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1946	\$1.50	\$1.35	\$1.05

5mm EMITTING DIODE

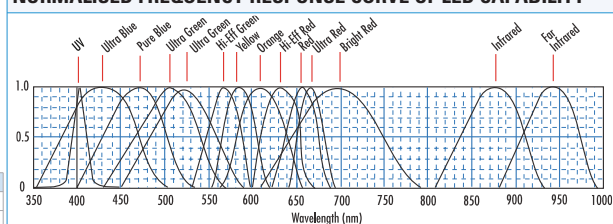
With a blue transparent lens.

Specifications	ZD-1945	Peak spectral wavelength (IR)	940nm@20mA
Forward current (If)	50mA max	Spectral bandwidth (DI)	50nm@20mA
Peak forward current (Ip)	1.2A	Reverse voltage (VR)	5V max
Forward voltage (VF)	1.2V @ 20mA	Viewing angle	30°
Power dissipation (Pd)	100mW max	Material	GaAs

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1945	\$1.50	\$1.35	\$1.05

TECH TALK!

NORMALISED FREQUENCY RESPONSE CURVE OF LED CAPABILITY



LASERS

10mW Laser Diode

10mW laser diode component, red in colour & supplied with 7mm dia collimating lens.

Specifications	ZD-1955		
Threshold current	24mA	LD reverse voltage	2V PD
Operating voltage	2.4V	Reverse voltage	30V
Operating current	40mA	Dimensions	TO-18 (5.6mm dia)
Optical power	10mW		

↑	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	TO-18	ZD-1955	\$7.95	\$7.10	\$5.50

WIRELESS SYSTEMS

433MHz Wireless Modules

These are pre-built 433MHz wireless transmitter / receiver modules. They feature ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.

Specifications	ZW-3100	ZW-3102
Output power	3dBm.	
Supply voltage	3VDC	5VDC
Supply current	10mA max	10mA max
Data rate	300bps to 10kbps	300bps to 10kbps
PCB measures	18.5(H) x 14.5(W)mm (excl. pins)	42(H) x 11(W)mm (excl pins)

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW-3100	\$13.95	\$12.35	\$10.95
Receiver	ZW-3102	\$13.95	\$12.35	\$10.95

The chemical giant Monsanto first mass produced visible red LEDs using gallium arsenide phosphide by 1969.

Hewlett-Packard started making 7-segment alpha-numeric LEDs by then but the were tiny. You started to see them in so-called "Scientific" hand held calculators which were just starting to emerge from Texas Instruments and Hewlett-Packard. This was mid 70's.

Blue LEDs (the "holy grail") were first seen in 1972 but they did not come common place until 1994 when the Japanese company Nichia made them with Indium Gallium Nitride.

White LEDs came shortly after.

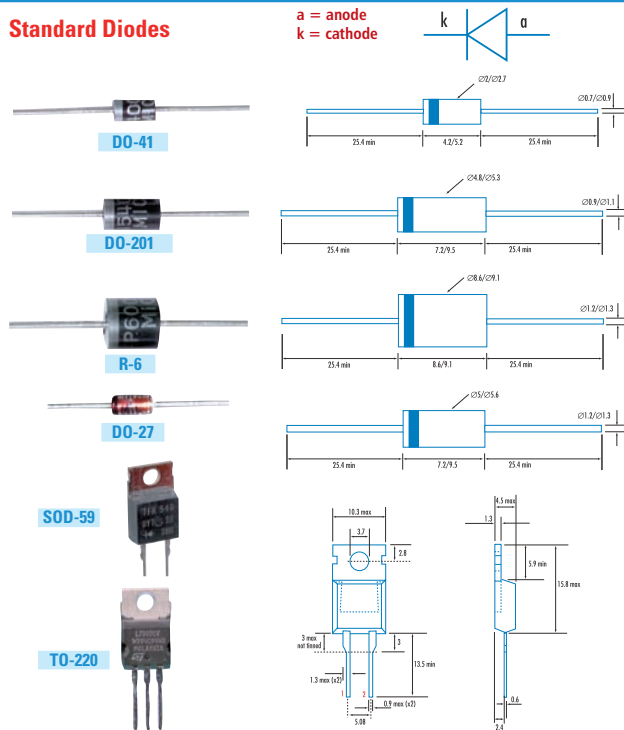
The explosion in high brightness white LED technology has only occurred in the last 10 years or so.

Today there is hardly any are left where, Halides, incandescents, or fluoros hold their own.



GENERAL DIODES

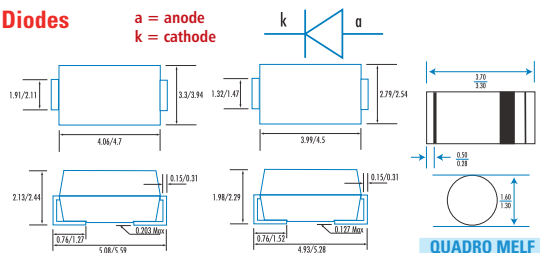
Standard Diodes



THROUGH HOLE DIODES • SSR = Standard Silicon Rectifier

Type	Description	Case	Pkt	Cat.	Qty 1 +	Qty 10+	Qty 25 +	
1N4004	SSR	400V 1A	D0-41	4	ZR-1004	\$0.70	\$0.53	\$0.39
1N4004		400V 1A	D0-41	100	ZR-1005	\$7.95	\$5.90	\$4.30
1N4007	SSR	1000V 1A	D0-41	4	ZR-1007	\$0.80	\$0.60	\$0.44
1N4007		1000V 1A	D0-41	100	ZR-1008	\$12.95	\$9.50	\$6.95
1N4934	SSR	100V 1A	D0-41	10	ZR-1001	\$3.95	\$2.90	\$2.10
1N5404	SSR	400V 3A	D0-27	ea	ZR-1014	\$0.35	\$0.26	\$0.19
1N5404		400V 3A	D0-27	100	ZR-1015	\$11.95	\$8.75	\$6.50
1N5408	SSR	1000V 3A	D0-27	ea	ZR-1018	\$0.40	\$0.30	\$0.22
1N5408		1000V 3A	D0-27	100	ZR-1017	\$14.95	\$10.95	\$7.95
1N5711	Schottky	70V 15mA	D0-35	ea	ZR-1027	\$0.80	\$0.60	\$0.44
1N5819	Schottky	40V 1A	D0-41	ea	ZR-1020	\$0.80	\$0.60	\$0.44
1N5822	Schottky	40V 3A	D0-201	ea	ZR-1048	\$1.15	\$0.80	\$0.65
1N5822	Schottky	40V 3A	D0-27	10	ZR-1023	\$6.95	\$5.35	\$3.75
1N914/1N4148	Signal	100V 150mA	D0-27	5	ZR-1100	\$0.60	\$0.45	\$0.33
1N914/1N4148		100V 150mA	D0-27	100	ZR-1105	\$5.95	\$4.45	\$3.15
6A1/P600B	SSR	100V 6A	R-6	10	ZR-1041	\$13.95	\$10.50	\$7.75
6A4/P600G	SSR	400V 6A	R-6	10	ZR-1044	\$13.95	\$10.50	\$7.75
6A10/P600M	SSR	1000V 6A	R-6	ea	ZR-1024	\$2.25	\$1.65	\$1.20
BA746/48	Schottky	100V 150mA	D0-27	ea	ZR-1141	\$1.50	\$1.10	\$0.80
BY229	Fast	600V 8A	SOD-59	ea	ZR-1028	\$6.95	\$5.35	\$3.75
FR302	Fast	100V 3A	D0-201	10	ZR-1050	\$3.45	\$2.55	\$1.95
FR307	Fast	1000V 3A	D0-201	10	ZR-1052	\$3.45	\$2.55	\$1.95
FR607	Fast	1000V 6A	R-6	10	ZR-1054	\$16.95	\$12.75	\$9.25
MBR20100CT	Dbl Schottky	100V 20A	TO-220	ea	ZR-1039	\$2.50	\$2.20	\$1.75
MBR735	Schottky	35V 7A	TO-220	ea	ZR-1029	\$1.75	\$1.30	\$0.95
SF37	Super fast	600V 3A	D0-27	10	ZR-1090	\$7.95	\$5.90	\$4.30
UF4003	Ultrafast	200V 1A	D0-41	ea	ZR-1034	\$1.15	\$0.80	\$0.65
UF4004	Ultrafast	400V 1A	D0-41	ea	ZR-1036	\$1.50	\$1.10	\$0.80
UF4007	Ultrafast	1000V 1A	D0-41	ea	ZR-1038	\$2.00	\$1.45	\$1.05

SMD Diodes



SURFACE MOUNT DIODES

• Sold as a pack of 10

Type	Description	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
1N914/1N4148	100V 150mA	QUADRO MELF	ZR-1103	\$6.95	\$5.35	\$3.75
SM4004A	400V 1A	DO-214AC	ZR-1003	\$5.95	\$4.45	\$3.15
SM4007A	1000V 1A	DO-214AC	ZR-1009	\$2.95		
SM4934A	100V 1A	DO-214AC	ZR-1070	\$6.95	\$5.35	\$3.75
SM5819A Schottky	40V 1A	DO-214AC	ZR-1021	\$6.95	\$5.35	\$3.75
SM5822B Schottky	40V 3A	DO-214AA	ZR-1025	\$6.95	\$5.35	\$3.75

ZENER DIODES

1 Watt Zener Diodes*

ABSOLUTE MAXIMUM RATINGS	
Power dissipation	1W
Derate above 50°C	6.67mW/°C
Storage temperature range	-65°C to +200°C
Operating junction temperature	+200°C
Thermal resistance junction to lead	53.5°C/W
Thermal resistance junction to ambient	100°C/W
Lead temperature (1/16" from case for 10 seconds)	230°C
Surge power*	10W
Case Size	DO-41

*Non-recurrent square wave PW=8.3ms, TA=55°C

Note 1: ratings are based on max junction temperature of 200°C

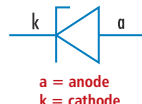
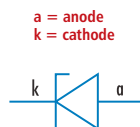
Note 2: These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N4728	3V3	ZR-1398	\$0.65	\$0.59	\$0.46
1N4729	3V6	ZR-1399	\$0.65	\$0.59	\$0.46
1N4730	3V9	ZR-1400	\$0.65	\$0.59	\$0.46
1N4731	4V3	ZR-1401	\$0.65	\$0.59	\$0.46
1N4732	4V7	ZR-1402	\$0.65	\$0.59	\$0.46

5 Watt Zener Diodes

1N53XXB Series Silicon Zener Diodes are a high quality voltage regulator for use in industrial, commercial, entertainment and computer applications.

ABSOLUTE MAXIMUM RATINGS	
Power dissipation (@TL=75°C)	5 Watts
Operating and storage temperature	-65°C to +200°C
Tolerance "B Suffix"	+5%

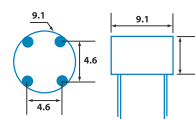


Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N4733	5V1	ZR-1403	\$0.65	\$0.59	\$0.46
1N4734	5V6	ZR-1404	\$0.65	\$0.59	\$0.46
1N4735	6V2	ZR-1405	\$0.65	\$0.59	\$0.46
1N4736	6V8	ZR-1406	\$0.65	\$0.59	\$0.46
1N4737	7V5	ZR-1407	\$0.65	\$0.59	\$0.46
1N4738	8V2	ZR-1408	\$0.65	\$0.59	\$0.46
1N4739	9V1	ZR-1409	\$0.65	\$0.59	\$0.46
1N4740	10V	ZR-1410	\$0.65	\$0.59	\$0.46
1N4741	11V	ZR-1411	\$0.65	\$0.59	\$0.46
1N4742	12V	ZR-1412	\$0.65	\$0.59	\$0.46
1N4743	13V	ZR-1413	\$0.65	\$0.59	\$0.46
1N4744	15V	ZR-1415	\$0.65	\$0.59	\$0.46
1N4745	16V	ZR-1416	\$0.65	\$0.59	\$0.46
1N4746	18V	ZR-1418	\$0.65	\$0.59	\$0.46
1N4747	20V	ZR-1420	\$0.65	\$0.59	\$0.46
1N4748	22V	ZR-1422	\$0.65	\$0.59	\$0.46
1N4749	24V	ZR-1424	\$0.65	\$0.59	\$0.46
1N4750	27V	ZR-1427	\$0.65	\$0.59	\$0.46
1N4751	30V	ZR-1430	\$0.65	\$0.59	\$0.46
1N4752	33V	ZR-1433	\$0.65	\$0.59	\$0.46
1N4753	36V	ZR-1436	\$0.65	\$0.59	\$0.46
1N4754	39V	ZR-1439	\$0.65	\$0.59	\$0.46
1N4761	75V	ZR-1475	\$0.95	\$0.85	\$0.65

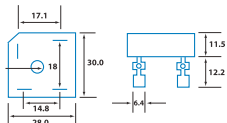
Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N5352B	15V	ZR-1450	\$1.75	\$1.55	\$1.20
1N5349B	12V	ZR-1440	\$1.75	\$1.55	\$1.20
1N5374B	75V	ZR-1480	\$1.75	\$1.55	\$1.20

COMPONENTS RECTIFIERS & REGULATORS

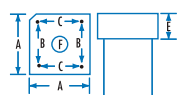
BRIDGE RECTIFIERS



ZR-1304



ZR-1324



ZR-1314

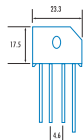
ZR-1320

A=15.3mm
B=8.8mm
C=9.1mm
E=6.4mm
F=ø4mm

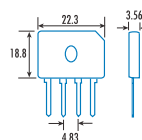
A=19.6mm
B=13.2mm
C=13.2mm
E=7.5mm
F=ø6mm



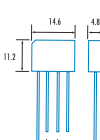
ZR-1308



ZR-1360



ZR-1362



ZR-1350

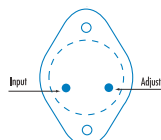
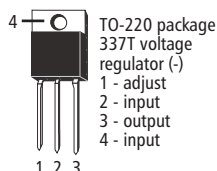
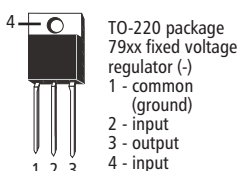
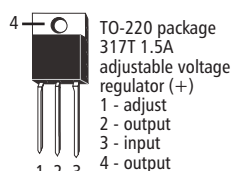
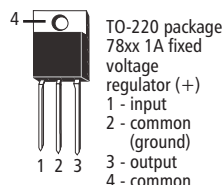
Bridge Rectifiers

Type	Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
DB104	400V	1A	ZR-1308	\$1.25	\$0.90	\$0.65
W04	400V	1.2A	ZR-1304	\$0.85	\$0.64	\$0.47
BR64	400V	6A	ZR-1314	\$2.50	\$1.85	\$1.35
BR106	600V	10A	ZR-1320	\$2.85	\$2.10	\$1.50
MB354	400V	35A	ZR-1324	\$5.50	\$4.10	\$3.00

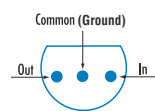
Inline Bridge Rectifiers

Type	Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
RS206	800V	2A	ZR-1350	\$2.25	\$1.65	\$1.20
KBU604	400V	6A	ZR-1360	\$3.35	\$2.45	\$1.80
GBU806	800V	8A	ZR-1362	\$3.95	\$2.90	\$2.10

VOLTAGE REGULATORS



Connections for the TO-3
LM317K, LM338K & LM350K
(viewed from bottom)



Connections for
TO-92 78LXX
(viewed from bottom)

Standard Voltage Regulators

Type	Vout	Iout	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
7805/LM340T5	+5V	1A	TO-220	ZV-1505	\$1.85	\$1.65	\$1.25
7806/LM340T6	+6V	1A	TO-220	ZV-1506	\$1.85	\$1.65	\$1.25
7808/LM340T8	+8V	1A	TO-220	ZV-1508	\$1.85	\$1.65	\$1.25
7809/LM340T9	+9V	1A	TO-220	ZV-1509	\$1.85	\$1.65	\$1.25
7812/LM340T12	+12V	1A	TO-220	ZV-1512	\$1.85	\$1.65	\$1.25
7815/LM340T15	+15V	1A	TO-220	ZV-1515	\$1.85	\$1.65	\$1.25
7824/LM340T24	+24V	1A	TO-220	ZV-1524	\$1.85	\$1.65	\$1.25
78L05	+5V	100mA	TO-92	ZV-1539	\$1.50	\$1.35	\$1.05
78L12	+12V	100mA	TO-92	ZV-1542	\$1.50	\$1.35	\$1.05
7905/LM320T5	-5V	1A	TO-220	ZV-1525	\$1.85	\$1.65	\$1.25
7909/LM320T9	-9V	1A	TO-220	ZV-1530	\$1.85	\$1.65	\$1.25
7912/LM320T12	-12V	1A	TO-220	ZV-1532	\$1.85	\$1.65	\$1.25
7915/LM320T15	-15V	1A	TO-220	ZV-1535	\$1.85	\$1.65	\$1.25
LM317K	+1.2 to +37V	1.5A	TO-3	ZV-1610	\$6.95	\$6.25	\$4.75
LM317T	+1.2 to +37V	1.5A	TO-220	ZV-1615	\$2.95	\$2.60	\$2.00
LM337T	-1.2 to -37V	1.5A	TO-220	ZV-1620	\$4.25	\$3.75	\$2.95
LM338K	+1.2 to +32V	5A	TO-3	ZV-1630	\$19.95	\$17.95	\$13.95
LM350K	+1.2 to +33V	3A	TO-3	ZV-1635	\$19.95	\$17.95	\$13.95
LM723CN	+2.0 to +37V	150mA	DIP14	ZV-1676	\$2.25	\$2.00	\$1.55
MC78T12	+12V	3A	TO-220	ZV-1634	\$4.95	\$4.45	\$3.45

Switching Voltage Regulators

Type		Vout	Iout	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
LM2576T-ADJ	Stepdown	+1.23 to +37V	3A	TO-220	ZV-1640	\$16.95	\$14.95	\$11.70
LM2577T-12	Stepup	+12V	3A	TO-220	ZV-1642	\$16.95	\$14.95	\$11.70
LM2678T-5.0	Stepdown	+5V	5A	TO-220	ZV-1636	\$16.95	\$14.95	\$11.70
LM2678T-12	Stepdown	+12V	5A	TO-220	ZV-1637	\$16.95	\$14.95	\$11.70
TL499ACP	Controller	+2.9 to +30V	100mA	DIP8	ZV-1644	\$3.95	\$3.50	\$2.75

Low Dropout Regulators

Type	Description	Case	Vin (Typ)	Vout	Iout (max)	Vdrop (Vout-Vin)	Cat.	Qty 1+	Qty 10+	Qty 25+
LM3940	Fixed voltage	TO-220	4.5 to 5.5V	+3.3V	1.0A	500mV at 1A	ZV-1565	\$4.25	\$3.80	\$2.95
LM2936-3.3	Ultra low quiescent current	TO-92	4.0 to 26V	+3.3V	50mA	200mV at 50mA	ZV-1650	\$4.35	\$3.90	\$2.95
LP2951ACN	Micropower adjustable voltage	DIP8	2.0 to 30V	+1.24 to +29V	100mA	380mV at 100mA	ZV-1646	\$2.50	\$2.20	\$1.75
LM2940CT-5.0	Fixed voltage	TO-220	6.25 to 26V	+5V	1.0A	500mV at 1A	ZV-1560	\$8.65	\$7.50	\$5.75
LM2940CT-12	Fixed voltage	TO-220	13.6 to 26V	+12V	1.0A	500mV at 1A	ZV-1562	\$8.65	\$7.50	\$5.75
LM2936-5.0	Ultra low quiescent current	TO-92	5.5 to 26V	+5V	50mA	200mV at 50mA	ZV-1652	\$4.35	\$3.90	\$2.95
LM1085IT-12	Fixed voltage, high current	TO-220	13.5 to 25V	+12V	3.0A	1.3V at 3A	ZV-1564	\$8.95	\$7.95	\$6.25
LP2950ACZ-5.0	Micropower fixed voltage	TO-92	6.0 to 30V	+5V	100mA	380mV at 100mA	ZV-1645	\$1.85	\$1.65	\$1.25
MC1703-5002E/CB	Ultra low quiescent current	SOT-23	5.33 to 16V	+5V	250mA	330mV at 250mA	ZV-1545	\$23.95	\$21.35	\$16.70

THERMISTORS

Negative Temperature Coefficient Thermistors

These devices are made of a special ceramic material which changes resistance value rapidly with temperature increase. They are commonly used to check thermal runaway in bipolar transistor amplifiers etc, but really have dozens of other uses. They are rugged and very reliable.

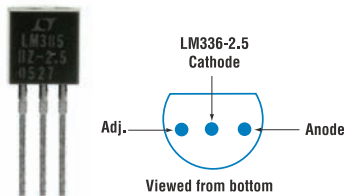
- Resistance at 25°C +/- 10%
- Temperature Range -20°C ~ +125°C
- Thermal dissipation constant: 6mW/°C
- Type-NTC Ceramic material with tinned copper lead
- Dissipation (MAX) 500mW
- Case 5mm diameter
- Radial type, dipped epoxy



Resistance (Ω)	Max Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
15	250	RN-3430	\$1.75	\$1.20	\$1.05
100	200	RN-3432	\$1.75	\$1.20	\$1.05
500	100	RN-3434	\$1.75	\$1.20	\$1.05
1k	80	RN-3436	\$1.75	\$1.20	\$1.05
4.7k	45	RN-3438	\$1.75	\$1.20	\$1.05
10k	30	RN-3440	\$1.75	\$1.20	\$1.05
47k	20	RN-3442	\$1.75	\$1.20	\$1.05
100k	15	RN-3444	\$1.75	\$1.20	\$1.05

VOLTAGE REFERENCE DIODES

Provides a stable 2.5V reference point for circuitry and can be used to make portable meters, regulators or general purpose analog circuitry.



Type	Vref	If (min)	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
LM336-2.5	2.5V	10mA	TO-92	ZV-1624	\$3.95	\$3.50	\$2.75

SCR'S / TRIAC'S / DIAC'S

SCRs

SILICON CONTROLLED RECTIFIERS - Reverse blocking thyristors glassivated PNP devices designed for high volume consumer applications such as temperature, light and speed control, process and remote control and warning systems where reliability of operation is important.

- Glassivated surface for reliability and uniformity
- Power rated at economical prices
- Sensitive gate triggering
- Practical level triggering and holding characteristics
- Flat, rugged, thermopad construction for low thermal resistance, high heat dissipation and durability.

Type	Vmax	IE(A)	VF(V)	IG(μA)	VG(V)	Hold In(mA)	Cat.
BT169D	400	0.8	1.2	50	0.5	2	ZX-7010
C106D1	400	4	2.2	200	0.8	3	ZX-7006
C122E / MCR8M / BT151	500	8	1.8	25mA	1	30	ZX-7012

↑	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
BT169D	400V	ZX-7010	\$2.95	\$2.60	\$2.00
C106D1	400V	ZX-7006	\$2.95	\$2.60	\$2.00
C122E / MCR8M / BT151	500V	ZX-7012	\$5.50	\$4.90	\$3.75



TO-126

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details



TRIACS

Type	Vmax	IE(A)	VF(V)	IG(mA)	VG(V)	Hold In(mA)	Cat.
SC141D	400	6	2	50	2.5	50	ZX-7141
SC151D	400	15	1.6	50	2	50	ZX-7145
TAG225	400	5	2	25	2.5	25	ZX-7147
BT137X	600	8	1.65	25	1.5	<20	ZX-7149*

*Note: ZX-7149 is isotab - mounting tab is dielectrically isolated.

↑	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
SC141D	400V	ZX-7141	\$4.95	\$4.45	\$3.45
SC151D	400V	ZX-7145	\$6.50	\$5.75	\$4.45
TAG225	400V	ZX-7147	\$3.95	\$3.50	\$2.75
BT137X	600V	ZX-7149	\$3.75	\$3.30	\$2.60



TO-220

DIAC

- Will trigger most devices above with a suitable timing circuit (DO-41)

Type	Vco	IFmax	ISW	VSW	Cat.	Qty 1+	Qty 10+	Qty 25+
ST2	3.5V	5mA	27	35V	ZX-7192	\$1.85	\$1.65	\$1.25



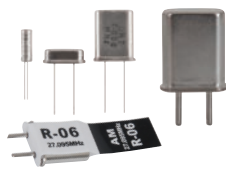
CRYSTALS

Crystals

Freq Tolerance: +/- 30Hz per 1MHz.
Operating Temp: -20 to +70°C. Load Capac: 30pF typ.

RC Crystal TX/RX

- Used in remote control circuits
- Supplied as a pair



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
27.095MHz	RQ-5275	\$9.95	\$8.75	\$7.75
27.125MHz	RQ-5276	\$9.95	\$8.75	\$7.75
27.145MHz	RQ-5277	\$9.95	\$8.75	\$7.75
27.175MHz	RQ-5278	\$9.95	\$8.75	\$7.75
27.195MHz	RQ-5279	\$9.95	\$8.75	\$7.75

Freq.(MHz)	WxDxH(mm)	Case	Max ESR	Cat.	Qty 1+	Qty 10+	Qty 25+
2.00	11.05 x 4.65 x 13.46	HC49U	500Ω	RQ-5268	\$4.50	\$3.95	\$3.60
3.2768	11.05 x 4.65 x 13.46	HC49U	90Ω	RQ-5271	\$4.50	\$3.95	\$3.60
3.5795	11.05 x 4.65 x 13.46	HC49U	90Ω	RQ-5272	\$4.50	\$3.95	\$3.60
4.000	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ-5274	\$4.50	\$3.95	\$3.60
4.433619	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ-5284	\$4.50	\$3.95	\$3.60
6.00	11.05 x 4.65 x 13.46	HC49U	60Ω	RQ-5285	\$4.50	\$3.95	\$3.60
8.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5287	\$4.50	\$3.95	\$3.60
10.00 (P)	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5289	\$4.50	\$3.95	\$3.60
12.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5293	\$4.50	\$3.95	\$3.60
20.00	11.05 x 4.65 x 13.46	HC49U	25Ω	RQ-5299	\$4.50	\$3.95	\$3.60
32.768kHz	3.1 x 3.1 x 8	DT38	35kΩ	RQ-5297	\$4.50	\$3.95	\$3.60
38kHz Mini	3 x 8.5		40Ω	RQ-5298	\$4.50	\$3.95	\$3.60

MICROCHIP MILESTONES

SEMICONDUCTOR MANUFACTURING IN AUSTRALIA

The industrial climate in Australia is a far cry from Australia's emerging manufacturing industries after WWII. Even before the end of the war, both federal and state governments were intent on making Australia a place of full employment for not only returning soldiers but anyone who needed a job. This sentiment was shared in Britain, Canada and to a lesser extent the USA. The heartbreaking, grinding poverty generated by the Great Depression in clear living memory of all adults, gave everyone a strong incentive to make the world a better place. And the war created a mindset that if the west could defeat Hitler and Japan, the government could do heroic things.

Shortly after the war, the transistor was invented in the Bell Telephone Laboratories in the USA. This invention created an explosion in semiconductor development. The transistor, which was tiny compared to a glass valve (vacuum tube) used far less power to operate as well. By the mid/late '50's you could even buy a radio that fitted in your pocket! The 6 transistor radio was born and so was SONY.

There was no question that transistors needed to be made in Australia. The Federal Government encouraged manufacturing by setting up massive tariff barriers. Local valve manufacture, which was needed in prodigious quantities for the dozens of radio manufacturers in Australia (not to mention upcoming TV from 1956 on) were protected by a three shilling and eight pence tariff per valve. (A tariff is a cost that an importer must pay to customs to protect local industry. Most valves cost less than 3 & 8 pence to make in Australia, tariff protection was generous to the locals).

Transistor and diode manufacture started in the '60's. Valves were still king and valve manufacturers lobbied the government to put the same tariff on a transistor as a valve, as they argued that a valve and a transistor had the same function. They didn't want their cozy and profitable valve business destroyed by these uppity transistors!

And why wouldn't you make transistors locally as well?

As a local transistor manufacturer, you had the same protection as valve makers.

Production of semiconductors in Australia started up in earnest in the '60's.

Philips were huge in Australia in those days. They made a large range of transistors in Henden in Adelaide. Ducon, a huge manufacturer of passive components based in Villawood in Sydney made a quite classy range. AWA made them, along with Fairchild and National Semiconductor later in the '60's. Some companies actually assembled pre made transistor dies and called themselves manufacturers to try to get around the tariff.

STC (later ITT) made a range of diodes, (particularly the IN4000 series) for the demands in manufacture of telephone exchanges - which we all made locally, of course.

In Feb 1966 we went decimal. The tariff on a transistor went decimal as well. There was now \$0.38 duty EACH on a transistor. This could not last. A BC548 type device cost less than 10 cents to make - even in Australia. It was part of the reason why consumer electronics was so expensive in this country in those days.

Local valve production dried up in the '70's, mainly due to falling demand. Transistor manufacture dried up as well when overprotective tariffs were dismantled in that decade also.

There was a brief resurgence of manufacturing when AWA tried its hand at making large scale integration of specialised IC's in Sydney in the 80's and 90's. Attempts were also made to make silicon solar cell wafers in this country too. None of that has survived.

Conclusion: Even though the post WWII tariff protection measures were ridiculously generous in hindsight, it certainly encouraged Australian industry to "have a go". Australia became incredibly self sufficient in that era. You would see Holdens in Greece, Ford Falcons in South Africa and Valiants in London - and everything made in Australia was in New Zealand.

Destroying tariffs completely has impoverished manufacturing in this country. Right now we are destroying the aluminium industry for the sake of a need for modest tariff assistance.

(Apologies if I missed naming a local manufacturer. This text was a personal recollection - Gary Johnston)

COMPONENTS TRANSDUCERS & TRANSISTORS

MOSFETS, FETS, UJTS

MOSFETs, FETs, UJTs

- Major brands



See our range of Heatsinks on page 171.

UJTS

Type	Voltage	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N2646	30V	UJT PN 300mW	TO-5	ZT-2297	\$6.50	\$5.75	\$4.45
2N6027	40V	UJT Programmable 300mW	TO-92	ZT-2397	\$1.95	\$1.75	\$1.35

FETS

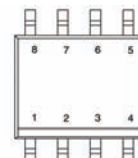
Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N5484	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT-2375	\$2.50	\$2.25	\$1.75
2N7000	60V	200mA	FET D-MOS N-Ch Relay Driver	TO-92	ZT-2400	\$0.75	\$0.68	\$0.53
MPF102	25V	10mA	JFET N-Ch VHF Amp	TO-92	ZT-2262	\$2.45	\$2.21	\$1.95
MPF106/2N5485	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT-2266	\$2.45	\$2.21	\$1.70
STP60NF06/ BUK-456-60	60V	60A	FET N-Ch Power	TO-220	ZT-2450	\$9.95	\$8.75	\$6.75
VN10KM	60V	300mA	FET N-Ch	TO-92	ZT-2452	\$4.95	\$4.45	\$3.45

MOSFETS

Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2SK1058	160V	7A	MOSFET N-Ch Power	TO-3P	ZT-2460	\$23.95	\$21.35	\$16.70
2SJ162	160V	7A	MOSFET P-Ch Power	TO-3P	ZT-2465	\$23.95	\$21.35	\$16.70
BUZ71	50V	14A	MOSFET N-Ch Power	TO-220	ZT-2225	\$4.95	\$4.45	\$3.45
IRF9540N	100V	23A	MOSFET P-Ch Power	TO-220	ZT-2467	\$5.95	\$5.25	\$4.15
IRF1405N	55V	169A	MOSFET N-Ch Automotive	TO-220	ZT-2468	\$5.95	\$5.25	\$4.15
IRF540N	100V	33A	MOSFET N-Ch Power	TO-220	ZT-2466	\$5.95	\$5.25	\$4.15
ST16NE06	60V	16A	MOSFET N-Ch Power	TO-220	ZT-2277	\$2.95	\$2.60	\$2.00
SUP53P06-20	60V	53A	MOSFET P-Ch	TO-220	ZT-2464	\$5.95	\$5.25	\$4.15

Dual N-Channel 30V MOSFET - Si4944DY

This handy dual N-channel MOSFET can be used in many projects such as DC-DC conversion and switching circuits. They have extremely low on-resistance ($r_{DS(on)}$ 0.016 Ω $V_{GS} = 4.5V$) and fast switching/low capacitance. They are very useful as analog switches as well as the traditional uses for MOSFETs eg, relay driving, LED driving, etc.



Type	Case	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
Si4944DY	SOIC8	EA	ZK-8821	\$5.50	\$4.90	\$3.75

TRANSDUCERS

Ultrasonic Transducer

- Compact and lightweight
- High sound pressure level
- Low power consumption
- High sensitivity, reliability & stability
- Transmitter & receiver in one unit

- Application:
- Parking sensors
 - Proximity sensor
 - Motion detector
 - Automatic doors
 - Intruder alarm
 - Water level meter



Specifications	AU-5550	Input voltage	140V
Frequency	40kHz	Operating temperature	-40°C to +85°C
Transmitting sound pressure	>105dB		
Receiving sensitivity	>-74dB		

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	AU-5550	\$6.95	\$6.25	\$5.50

Ultrasonic Transducer

Ultrasonic transducer as used in Silicon Chip projects such as the ultrasonic cleaner and boat antifouling. See website for data sheets.

Specifications	AU-5556
Static capacitance	3000pF
Resonant frequency	40kHz
Bandwidth	3.9kHz
Impedance	15 ohms
Insulated impedance	1000M ohms
Power	50 Watt



↑	Cat.	Qty 1+
50 Watt - 40kHz	AU-5556	\$29.95

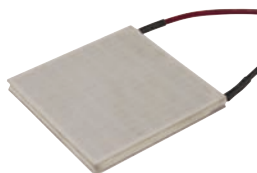
PELTIER MODULES

Thermoelectric (Peltier) Modules

These are a solid-state devices which operate as a heat pump to transfer heat utilising the Peltier effect. Suitable for cooling or heating applications up to 100°C.

- Measures: 40 x 40 mm with lead wires
- Temperature differential (DT) (Th=27°C): > =68°C
- Optimum input voltage (Vmax) (Th=27°C): 15V

33.4W ZP-9100	
Optimum input current (Imax) (Th=27°C)	4A
Maximum cooling power (Qmax)	33.4W
51.4W ZP-9102	
Optimum input current (Imax) (Th=27°C)	6A
Maximum cooling power (Qmax)	51.4W
68.09W ZP-9104	
Optimum input current (Imax) (Th=27°C)	8A
Maximum cooling power (Qmax)	68.09W



↑	Cooling Power	Cat.	Qty 1+	Qty 10+	Qty 25+
	33.4W	ZP-9100	\$24.95	\$22.45	\$19.95
	51.4W	ZP-9102	\$18.95	\$16.95	\$14.95
	68.09W	ZP-9104	\$23.95	\$21.35	\$18.95

VALVE SOCKETS

Valve Sockets

9 PIN:

This unit is moulded from high grade thermosetting resin. The pins are adequately plated and have deep solder terminals, sufficient for several hard wiring points per pin. Sturdy flange mount is meant for fitting above the chassis.

8 PIN:

Made from similar materials to above, but with moulded key. Can be mounted above or below the chassis.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
9 Pin	PS-2082	\$6.95	\$6.25	\$5.50
8 Pin	PS-2080	\$7.95	\$7.10	\$6.25

MICROCHIP MILESTONES

THE FAIRCHILD STORY

With the invention of the transistor (transfer-resistor) in 1947 in Bell Telephone Laboratories by Shockley, Bardeen and Brattain (who won nobel prizes) the industrial world started gearing up to mass produce transistors.

Shockley left to form the Shockley Semiconductor Laboratory. Where he assembled the best and the brightest engineer/scientists.

Shockley was a shocker to work for, and a bunch of people all quit on him and went out on their own. They were one of the first to acquire capital investment by what is now known as 'venture capital' and settled in what became later known as 'Silicon Valley'. They formed a company within the Fairchild Camera and Instrument Corp, eventually to dominate it. Fairchild Semiconductor was a huge semiconductor presence in the '60's, '70's & '80's.

They were all young - around 30 - and some of them became world famous. Some later started Intel.

The names?

Gordon Moore, Bill Noyce, Dr. Jean Hoerni, and Dr. Jay Last.

We owe a great debt to these pioneers.

SMART CARDS/PROGRAMMERS

Wafer Cards

With PIC16F84A + 24LC16B Inbuilt (GOLD). This is a multi-chip 'smart card' based on the PIC 16F84A and is coupled with a 24LC16B EEPROM, and compatible with most reader/programmer units available.

- 16K memory.
- ISO 7816-1 compatible pin-out and card body
- DC to 10 MHz operating speed
- Reprogrammable with code protection
- 1024 x 14 on-chip programmable memory
- 64 x 8 internal EEPROM memory
- Enhanced code protection
- More than 1,000,000 Write/ Erase cycles



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Gold	ZZ-8800	\$11.95	\$10.70	\$8.25

SILICON BIPOLAR TRANSISTORS - MAJOR BRANDS ONLY

- Major brands only
- Resin moulded or hermetic metal cases.



TO-264



TO-218



TO-220



TO-218



TO-126



TO-92



TO-3



TO-39

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
BC327	PNP	TO-92	625mW	50	800mA	100/630	100mA	ZT-2110	\$0.48	\$0.43	\$0.34
BC328	PNP	TO-92	625mW	30	800mA	100/630	100mA	ZT-2112	\$0.48	\$0.43	\$0.34
BC337	NPN	TO-92	625mW	50	800mA	100/630	100mA	ZT-2115	\$0.48	\$0.43	\$0.34
BC338	NPN	TO-92	625mW	30	800mA	100/630	100mA	ZT-2116	\$0.48	\$0.43	\$0.34
BC639	NPN	TO-92	830mW	80	1A	63/250	150mA	ZT-2179	\$0.95	\$0.85	\$0.65
BC546	NPN	TO-92	500mW	80	100mA	110/220	2mA	ZT-2150	\$0.30	\$0.27	\$0.21
BC547	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT-2152	\$0.30	\$0.27	\$0.21
BC548	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT-2154	\$0.30	\$0.27	\$0.21
BC549	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT-2156	\$0.30	\$0.27	\$0.21
BC550	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT-2160	\$0.38	\$0.34	\$0.27
BC556	PNP	TO-92	500mW	80	100mA	125/475	2mA	ZT-2162	\$0.38	\$0.34	\$0.27
BC557	PNP	TO-92	500mW	50	100mA	125/800	2mA	ZT-2164	\$0.30	\$0.27	\$0.21
BC558	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT-2166	\$0.30	\$0.27	\$0.21
BC559	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT-2168	\$0.30	\$0.27	\$0.21
BC640	PNP	TO-92	830mW	100	1A	63/250	150mA	ZT-2180	\$0.95	\$0.85	\$0.65
BD135	NPN	TO-126	8W	40	1.5A	63/250	150mA	ZT-2187	\$1.50	\$1.35	\$1.05
BD136	PNP	TO-126	8W	40	1.5A	63/250	150mA	ZT-2188	\$1.50	\$1.35	\$1.05
BD139	NPN	TO-126	8W	80	1.5A	63/250	150mA	ZT-2189	\$1.15	\$1.00	\$0.80
BD140	PNP	TO-126	8W	80	1.5A	63/250	150mA	ZT-2190	\$1.15	\$1.00	\$0.80
BD649	* NPN	TO-220	60W	100	8A	750	3A	ZT-2198	\$2.85	\$2.53	\$1.95
BD650	* PNP	TO-220	60W	100	8A	750	3A	ZT-2199	\$2.85	\$2.53	\$1.95
BD681	* NPN	TO-126	40W	100	4A	750	1.5A	ZT-2193	\$2.25	\$2.00	\$1.55
BD682	* PNP	TO-126	40W	100	4A	750	1.5A	ZT-2192	\$2.25	\$2.00	\$1.55
BF469	NPN	TO-126	1.8W	250	100mA	50	25mA	ZT-2200	\$2.45	\$2.21	\$1.95
BF470	PNP	TO-126	1.8W	250	100mA	50	25mA	ZT-2202	\$2.45	\$2.21	\$1.95

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
MJ10012*	NPN	TO-3	175W	600	10A	300	3A	ZT-2222	\$14.50	\$12.35	\$9.75
MJL21193	PNP	TO-3P	200W	250	16A	25/75	8A	ZT-2227	\$14.50	\$12.35	\$9.75
MJL21194	NPN	TO-3P	200W	250	16A	25/75	8A	ZT-2228	\$14.50	\$12.35	\$9.75
MJ15003	NPN	TO-3	250W	140	20A	25/150	5A	ZT-2230	\$9.95	\$8.95	\$6.95
MJ15004	PNP	TO-3	250W	140	20A	25/150	5A	ZT-2231	\$9.95	\$8.95	\$6.95
MJ2955	PNP	TO-3	115W	100	15A	5	10A	ZT-2235	\$3.45	\$3.05	\$2.35
MJE340	NPN	TO-126	20W	300	500mA	30/240	50mA	ZT-2255	\$2.95	\$2.60	\$2.00
MJE350	PNP	TO-126	20W	300	500mA	30/240	50mA	ZT-2260	\$2.95	\$2.60	\$2.00
MJE2955	PNP	TO-220	75W	70	10A	20/100	4A	ZT-2275	\$2.75	\$2.45	\$1.90
MJE3055	NPN	TO-220	75W	70	10A	20/70	4A	ZT-2280	\$2.75	\$2.45	\$1.90
MPSA06	NPN	TO-92	625mW	80	500mA	100	10mA	ZT-2286	\$0.50	\$0.45	\$0.35
MPSA13*	NPN	TO-92	625mW	30	500mA	5000	10mA	ZT-2287	\$0.50	\$0.45	\$0.35
NJL1302D	PNP	TO-264	200W	260	25A	75/150	15A	ZT-2237	\$9.95	\$8.75	\$6.95
NJL3281D	NPN	TO-264	200W	260	25A	75/150	15A	ZT-2236	\$10.95	\$9.85	\$7.65
TIP2955	PNP	SOT-93	90W	100	15A	20/70	4A	ZT-2270	\$3.45	\$3.05	\$2.35
TIP3055	NPN	SOT-93	90W	100	15A	20/70	4A	ZT-2278	\$3.45	\$3.05	\$2.35
TIP31	NPN	TO-220	40W	40	3A	25/50	1A	ZT-2285	\$1.85	\$1.65	\$1.25
TIP32	PNP	TO-220	40W	40	3A	25/50	1A	ZT-2290	\$1.85	\$1.65	\$1.25
TIP35C	NPN	TO-218	125W	100	25A	15/75	15A	ZT-2293	\$5.95	\$5.25	\$4.15
TIP36C	PNP	TO-218	125W	100	25A	15/75	15	ZT-2294	\$5.95	\$5.25	\$4.15
TIP41C	NPN	TO-220	65W	100	6A	15/75	3A	ZT-2291	\$2.15	\$1.90	\$1.50
TIP42C	PNP	TO-220	65W	100	6A	15/75	3A	ZT-2289	\$2.15	\$1.90	\$1.50
TIP122	* NPN	TO-220	65W	100	5A	1000	3A	ZT-2292	\$2.15	\$1.90	\$1.50

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
2N2222A	NPN	TO-92	1.8W	75	800mA	100/300	150mA	ZT-2298	\$0.40	\$0.36	\$0.28
2N2907	PNP	TO-92	400mW	40	600mA	100/300	150mA	ZT-2322	\$1.15	\$1.00	\$0.80
2N3053	NPN	TO-39	1W	60	700mA	50/250	150mA	ZT-2299	\$1.15	\$1.00	\$0.80
2N3055	NPN	TO-3	115W	100	15A	20/70	4A	ZT-2300	\$2.95	\$2.60	\$2.00
2N3638	PNP	TO-92	300mW	25	500mA	30/130	30mA	ZT-2320	\$1.65	\$1.45	\$1.15
2N3773	NPN	TO-3	150W	160	16A	15/60	8A	ZT-2324	\$9.95	\$8.75	\$6.75
2N3904	NPN	TO-92	625mW	60	200mA	70	1mA	ZT-2326	\$0.75	\$0.68	\$0.53
2N3906	PNP	TO-92	625mW	40	200mA	80	1mA	ZT-2328	\$0.75	\$0.68	\$0.53

* Denotes Darlington type

Data representative only. Please download the manufacturers data sheet if values are critical.

COMPONENTS TRANSISTORS & MOUNTING HARDWARE

TRANSISTORS MULTI-REPLACEMENT

Multi-Replacement Common Transistors

Two transistors which will replace a multitude of common hard to get devices. Both are TO-92 package.



PN100

NPN general purpose medium power amp and switch with continuous collector current up to 500mA. PN100 replaces PN2221, PN2222, PN2222A, PN3565, PN3568, PN3569, PN3643, PN5133, 2N2219A, 2N2222A, 2N3414, 2N3415, 2N3416, 2N3417, 2N3700, 2N3704, 2N3904, 2N4123, 2N4124, 2N4401, 2N5088 and 2N5210.

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2283	\$0.40	\$0.36	\$0.28

Type	Polarity	Case	Vce	Ic	h _{FE} min/max
PN100	NPN	TO-92	45V	500	80-600
PN200	PNP	TO-92	45V	500	80-600

PN200

PNP general purpose amplifier at collector currents to 500mA. PN200 replaces PN2907, PN2907A, PN3638, PN3638A, PN3640, PN3644, PN4121, PN4143, PN4248, PN4249, PN4250, PN4355, PN4916, PN4917, PN5910, 2N2905A, 2N3467, 2N3702, 2N3906, 2N4125, 2N4126, 2N4291, 2N4402, 2N4403, 2N5086, 2N5087, 2N5447

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2284	\$0.40	\$0.36	\$0.28

TRANSISTOR PACKS

Prototype Pack

TRANSISTOR PACK

100 mixed BC series transistors. More of the common types.

- 15 x BC547
- 20 x BC549
- 15 x BC558
- 20 x BC548
- 15 x BC557
- 15 x BC559



BEST SELLER

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2170	\$16.95	\$14.95	\$11.70

TRANSISTOR INSULATION KITS

SILICONE RUBBER TRANSISTOR INSULATORS

Silicone impregnated rubber washers. Stop using messy silicone grease. These washers are made from silicone rubber and are as effective as mica and grease.

Physical Properties:	
Colour	grey
Tensile strength	40kg/cm2
Elongation	80%
Dielectric breakdown voltage	4000/0.3mm
Co-efficient of thermal conductance	2.4 x 10-3
Flammability class	94V-0/0.3mm
Dimensional stability	0.2% change/0.3mm



HP-1150

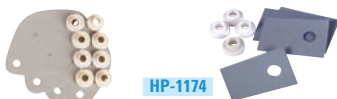
↑	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
	TO-3	20	HP-1150	\$12.50	\$10.70	\$9.50
	TO-220	20	HP-1155	\$6.95	\$6.25	\$5.50
	TO-220	100	HP-1156	\$17.95	\$15.95	\$14.35

Bushes to suit silicone impregnated rubber washers & mica washers TO220 - Pkt 100

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	HP-1166	\$9.95	\$8.75	\$6.75

SILICONE RUBBER INSULATING KITS

HP-1172



HP-1174

↑	Type	Washers	Bushes	Cat.	Qty 1+	Qty 10+	Qty 25+
	TO-3	4	8	HP-1172	\$3.75	\$3.30	\$2.60
	TO-3P	4	4	HP-1174	\$3.75	\$3.30	\$2.60
	TO-220	4	4	HP-1176	\$3.50	\$3.15	\$2.45

TO-3 & TO-220 MICA INSULATING KITS

Mica washers and bushes



↑	Type	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
	TO-3	4	HP-1122	\$3.50	\$3.15	\$2.45
	TO-220	4	HP-1142	\$1.95	\$1.75	\$1.35
	TO-220	100	HP-1140	\$14.95	\$13.35	\$10.35

ADHESIVE TRANSISTOR MOUNTING WASHER KITS

Adhesive silicone washers with good thermal conductivity. Makes installation of transistors a snap! Complete kit supplied including washer and bushes.



↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	TO-220	HP-1160	\$9.95	\$8.95	\$7.95
	TO-3	HP-1161	\$10.95	\$9.85	\$8.75
	TO-3P	HP-1162	\$9.95	\$8.95	\$7.95

SMD Transistor Packs

BC817

Equivalent to BC547/8

- NPN
- SOT23-3
- 45V

Cat. ZT-2118

BC807

Equivalent to BC557/8

- PNP
- SOT23-3
- 45V

Cat. ZT-2121



↑	Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
	BC817	10	ZT-2118	\$1.95	\$1.75	\$1.35
	BC807	10	ZT-2121	\$1.95	\$1.75	\$1.35

TRANSISTOR CLAMPS

- To clamp TO-220 devices to a heatsink.



HH-8600/02



HH-8610



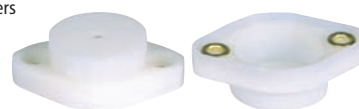
HH-8605/7

↑	Type	Pkt	Cat.	Qty 1+	Qty 10+	Qty 50+
	Dual TO-220	ea	HH-8610	\$1.45	\$1.30	\$1.15
	Single TO-220	10	HH-8600	\$8.95	\$7.95	\$6.95
	Single TO-220	100	HH-8602	\$24.95	\$22.35	\$19.70
	Dual TO-220	100	HH-8607	\$19.95	\$17.70	\$13.70

Full TO-3 Insulating Cap

Ideal for insulating 'live' transistors or for simply keeping prying fingers away from potentially dangerous transistor cases.

- Fastens to the transistor
- Has a single ventilation hole to decrease chance of overheating.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZM-9904	\$1.70	\$1.50	\$1.15

Workbench sent by: Don Jaycar Store: Ferntree Gully

Created a work space in the garage after being forced by the boss to stop using the kitchen.

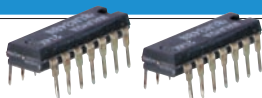


For more details, visit:
www.jaycar.com.au/workbench



74LS SERIES

- Low power Schottky logic
- Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74LS00	14	Quad 2 input NAND gate	ZS-5000	\$1.40	\$1.25	\$0.95
74LS01	14	Quad 2 input NAND gate (OC)	ZS-5001	\$1.40	\$1.25	\$0.95
74LS02	14	Quad 2 input NOR gate	ZS-5002	\$1.40	\$1.25	\$0.95
74LS04	14	Hex inverter	ZS-5004	\$1.40	\$1.25	\$0.95
74LS05	14	Hex inverter (OC)	ZS-5005	\$1.40	\$1.25	\$0.95
74LS08	14	Quad 2 input AND gate	ZS-5008	\$1.25	\$1.10	\$0.85
74LS10	14	Triple 3 input NAND gate	ZS-5010	\$1.50	\$1.35	\$1.05
74LS11	14	Triple 3 input AND gate	ZS-5011	\$1.25	\$1.10	\$0.85
74LS14	14	Hex schmitt trigger inverter	ZS-5014	\$1.15	\$1.00	\$0.80
74LS20	14	Dual 4 input NAND gate	ZS-5020	\$1.60	\$1.40	\$1.10
74LS27	14	Triple 3 input NOR gate	ZS-5027	\$1.25	\$1.10	\$0.85
74LS30	14	Single 8 input NAND gate	ZS-5030	\$0.95	\$0.85	\$0.65
74LS32	14	Quad 2 input OR gate	ZS-5032	\$1.25	\$1.10	\$0.85
74LS42	16	BCD to decimal decoder	ZS-5042	\$4.95	\$4.45	\$3.45
74LS47	16	BCD to 7 seg decoder/driver (OC)	ZS-5047	\$1.95	\$1.75	\$1.35
74LS48	16	BCD to 7 segment decoder	ZS-5048	\$2.85	\$2.53	\$1.95
74LS73	14	Dual JK flip-flop + clear	ZS-5073	\$3.95	\$3.55	\$2.75
74LS74	14	Dual D flip-flop + preset + clear	ZS-5074	\$1.50	\$1.35	\$1.05
74LS75	16	4 bit bi-stable latch	ZS-5075	\$1.75	\$1.55	\$1.20
74LS76	16	Dual JK flip-flop + preset + clear	ZS-5076	\$5.25	\$4.70	\$3.65
74LS85	16	4 bit magnitude comparator	ZS-5085	\$2.75	\$2.45	\$1.90
74LS86	14	Quad 2 input exclusive OR gate	ZS-5086	\$1.40	\$1.25	\$0.95

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74LS90	14	Decade counter	ZS-5090	\$1.90	\$1.70	\$1.30
74LS93	14	4 bit binary counter	ZS-5093	\$4.95	\$4.45	\$3.75
74LS109	16	Dual JK flip-flop + preset + clear	ZS-5109	\$4.25	\$3.80	\$2.95
74LS123	16	Dual retrigger monostable with clear	ZS-5123	\$1.95	\$1.75	\$1.35
74LS125	14	Quad tri-state buffer	ZS-5125	\$1.75	\$1.55	\$1.40
74LS138	16	3 to 8 line decoder/demux	ZS-5138	\$1.75	\$1.55	\$1.20
74LS139	16	Dual 2 to 4 line decoder/demux	ZS-5139	\$1.15	\$1.00	\$0.80
74LS151	16	Single 8 input multiplexer	ZS-5151	\$1.95	\$1.75	\$1.35
74LS153	16	Dual 4 input multiplexer	ZS-5153	\$1.75	\$1.55	\$1.20
74LS155	16	Dual 2 to 4 line decoder/demux	ZS-5155	\$2.50	\$2.20	\$1.75
74LS157	16	Quad 2 to 1 line multiplexer	ZS-5157	\$1.45	\$1.30	\$1.15
74LS161	16	4 bit binary counter (async. reset)	ZS-5161	\$1.75	\$1.55	\$1.20
74LS164	14	8 bit shift register (ser. in/par. out)	ZS-5164	\$1.45	\$1.30	\$0.99
74LS174	16	Hex D flip-flop + clear	ZS-5174	\$1.95	\$1.75	\$1.55
74LS175	16	Quad D flip-flop with clear	ZS-5175	\$1.35	\$1.20	\$0.90
74LS192	16	Up/down dec counter/dual clock	ZS-5192	\$2.50	\$2.20	\$1.75
74LS193	16	Up/down bin counter/dual clock	ZS-5193	\$1.75	\$1.55	\$1.20
74LS221	16	Dual monostable multivibrator	ZS-5221	\$1.80	\$1.55	\$1.25
74LS240	20	Octal tri-state buffer (inverting)	ZS-5240	\$2.10	\$1.85	\$1.45
74LS241	20	Octal tri-state buffer (non-inverting)	ZS-5241	\$2.15	\$1.90	\$1.50
74LS244	20	Octal tri-state line driver/receiver	ZS-5244	\$2.15	\$1.90	\$1.50
74LS245	20	Octal tri-state bus transceiver	ZS-5245	\$2.15	\$1.90	\$1.50
74LS273	20	Octal D flip-flop + clear	ZS-5273	\$2.50	\$2.20	\$1.75
74LS283	16	4 bit binary full adder + carry	ZS-5283	\$3.95	\$3.55	\$2.75
74LS373	20	Octal tri-state transparent latch	ZS-5273	\$1.80	\$1.60	\$1.25
74LS374	20	Octal tri-state D flip-flop	ZS-5274	\$1.75	\$1.55	\$1.20

74HC SERIES

- High speed CMOS logic
- Major brands only

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74HC00	14	Quad 2 input NAND gate	ZC-4800	\$1.15	\$0.95	\$0.65
74HC02	14	Quad 2 input NOR gate	ZC-4802	\$1.35	\$1.15	\$0.80
74HC04	14	Hex inverter	ZC-4804	\$1.35	\$1.15	\$0.80
74HC08	14	Quad 2 input AND gate	ZC-4808	\$1.35	\$1.15	\$0.80
74HC10	14	Triple 3 input NAND gate	ZC-4810	\$1.35	\$1.15	\$0.80
74HC14	14	Hex schmitt trig inverter	ZC-4821	\$1.35	\$1.15	\$0.80
74HC27	14	Triple 3 input NOR gate	ZC-4827	\$1.35	\$1.15	\$0.80
74HC30	14	8 input NAND gate	ZC-4811	\$1.35	\$1.15	\$0.80
74HC32	14	Quad 2 input OR gate	ZC-4823	\$1.35	\$1.15	\$0.80
74HC42	16	BCD to decimal decoder	ZC-4826	\$2.75	\$2.35	\$1.65
74HC51	14	Dual 2 wide/2 input, 2 wide/3 input AND-OR-INVERT gate	ZC-4828	\$2.15	\$1.85	\$1.25
74HC73	14	Dual JK flip-flop + clear	ZC-4829	\$2.15	\$1.85	\$1.25
74HC74	14	Dual D flip-flop + preset + clear	ZC-4830	\$1.25	\$1.05	\$0.75
74HC76	16	Dual JK flip-flop + preset + clear	ZC-4832	\$2.95	\$2.55	\$1.75
74HC85	16	4 bit magnitude comparator	ZC-4834	\$2.15	\$1.85	\$1.25
74HC86	14	Quad 2 input exclusive OR gates	ZC-4835	\$1.50	\$1.30	\$0.90
74HC107	14	Dual JK flip-flop + clear	ZC-4837	\$2.95	\$2.55	\$1.75
74HC123	16	Dual retrigger monostable multivibrator + clear	ZC-4840	\$2.15	\$1.85	\$1.25
74HC125	14	Quad tri-state buffer (non-inverting)	ZC-4842	\$1.95	\$1.65	\$1.15
74HC132	14	Quad 2 input NAND gate + schmitt trig	ZC-4844	\$1.95	\$1.65	\$1.15

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74HC138	16	3 to 8 line decoder/demux	ZC-4846	\$2.15	\$1.85	\$1.25
74HC139	16	Dual 2 to 4 line decoder/demux	ZC-4848	\$2.15	\$1.85	\$1.25
74HC151	16	8 to 1 line multiplexer	ZC-4849	\$2.15	\$1.85	\$1.25
74HC154	24	4 to 16 line decoder/demux	ZC-4850	\$3.85	\$3.35	\$2.25
74HC157	16	Quad 2 line to 1 line multiplexer	ZC-4853	\$1.75	\$1.50	\$1.05
74HC160	16	Synch 4 bit BCD counter + preset	ZC-4855	\$2.95	\$2.55	\$1.75
74HC161	16	Synch 4 bit binary counter + preset	ZC-4856	\$2.65	\$2.30	\$1.55
74HC164	14	8 bit ser-in/par-out shift reg	ZC-4857	\$1.75	\$1.50	\$1.05
74HC165	16	8 bit par-in/ser-out shift reg	ZC-4858	\$1.75	\$1.50	\$1.05
74HC174	16	Hex D flip-flop + clear	ZC-4862	\$1.75	\$1.50	\$1.05
74HC193	16	Synch 4 bit binary up/down counter	ZC-4864	\$1.95	\$1.65	\$1.15
74HC221	16	Dual monostable multivibrator	ZC-4865	\$3.25	\$2.80	\$1.90
74HC240	20	Octal tri-state buffer (inverting)	ZC-4867	\$2.85	\$2.45	\$1.70
74HC244	20	Octal tri-state buffer (non-inverting)	ZC-4869	\$1.95	\$1.65	\$1.15
74HC245	20	Octal tri-state transceiver	ZC-4870	\$1.95	\$1.65	\$1.15
74HC367	16	Hex tri-state buffer	ZC-4872	\$2.15	\$1.85	\$1.25
74HC373	20	Octal tri-state transparent latch	ZC-4874	\$1.95	\$1.65	\$1.15
74HC374	20	Octal tri-state D flip-flop	ZC-4875	\$2.15	\$1.85	\$1.25
74HC393	14	Dual 4 bit binary counter	ZC-4880	\$2.50	\$2.20	\$1.75
74HC573	20	Octal tri-state transparent D latch	ZC-4890	\$2.85	\$2.45	\$1.70
74HC595	16	8 bit tri-state ser-in/ser+ par-out shift reg	ZC-4895	\$3.35	\$2.90	\$1.95
74HC4066	14	Quad bilateral analog switch	ZC-4892	\$1.15	\$0.95	\$0.65

TTL SERIES

- Standard TTL logic
- Major brands only



Type	Pin	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
7404	14	Hex inverter	ZS-5804	\$2.95	\$2.55	\$1.75
7405	14	Hex inverter with OC outputs	ZL-3405	\$2.95	\$2.55	\$1.75
7406	14	Hex inverter with 30V OC outputs	ZS-5806	\$2.95	\$2.55	\$1.75
7407	14	Hex buffer with 30V OC outputs	ZS-5807	\$1.65	\$1.40	\$0.95

NON-STATIC SHEETING

Conductive Foam

Non-static sheeting for storing CMOS, ICs, LSIs, etc.

- Will store up to 150 ICs on one sheet
- Reusable. Can be cut with scissors or hobby knife for smaller pieces
- Size 225x150mm.



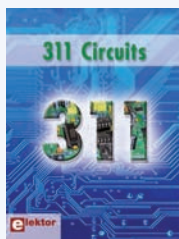
NEED PERKS
2x POINTS

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	ZV-9998	\$9.95	\$8.75	\$6.75

RELATED PRODUCTS

311 Circuits

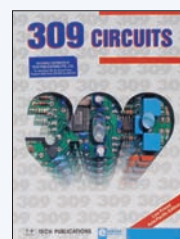
311 Circuits is the twelfth book in Elektor's celebrated '300' series. Containing circuits, design ideas, tips and tricks for all areas of electronics. Including: Audio, video, computers, microcontrollers, radio, power supplies, batteries, testing, measurement and software. Not to mention the "miscellaneous" section, a veritable goldmine of inspiration. Compiled from the 2009, 2010 and 2011 Summer Circuits double editions of Elektor magazine, it is mostly based on readers' contributions, supplemented by circuits engineered and developed in the Elektor Labs. If you only own one electronics book, this should be it.



↑	Cat.	Qty 1+
	BM-2471	\$64.95

309 Circuits Book

Companion to the popular 308 circuits with many useful designs in audio, video, car, computer, hobby, home, test, power supplies, chargers and more. The book is divided into categories to help find circuits easier. Each circuit has a diagram and a photo of the finished project.



↑	Cat.	Qty 1+
	BM-2470	\$49.95

TECH TALK

WHAT IS AN ARM MICROPROCESSOR/MICROCONTROLLER?

The term ARM stands for Advanced Risc Machine.

The first manufacturer to describe their micro product in this way was, we think, ATMEL. The processor is quite sophisticated, as it runs 32-bit architecture. The ARM concept has proven to be popular and many manufacturers produce ARM-like devices.

Indeed the Arduino uses an ARM- type processor.

RISC Normally a 32-bit architecture would require a massive internal instruction set to manage the operation of the device. The problem is, a complex instruction set shows the speed of the machine significantly.

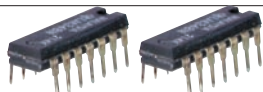
Some time ago, some clever engineers realised that reducing the actual instruction set down to a minimum increased the processing speed performance out of all proportion to the marginal ambiguities that a large, complex instruction set was meant to eliminate.

So, to repeat, an ARM processor is a very powerful 32-bit machine that is very, very fast for its cost. With 32-bit architecture "Embedded" (See what does "Embedded System" mean?) platforms have revolutionized what can be done with small, low-power Do-it-yourself circuits.

LINEAR ICs

Through Hole

- Major brands only



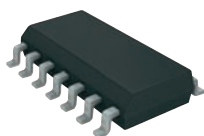
Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
AN7511	8	Balanced transformerless audio amp 1W	ZL-3388	\$4.95	\$4.45	\$3.45
BA1404	18	FM stereo transmitter	ZL-3995	\$6.95	\$6.25	\$4.85
CA3140	8	4.5MHz BiMOS op-amp	ZL-3835	\$3.75	\$3.30	\$2.60
CA3130	8	15MHz BiMOS op-amp	ZL-3860	\$4.95	\$4.45	\$3.45
INA126PA	8	Micropower Instrument Amp	ZL-3976	\$6.50	\$5.75	\$4.45
LM301	8	High performance op-amp	ZL-3301	\$2.25	\$2.00	\$1.55
LM308	8	Precision op-amp	ZL-3308	\$12.95	\$11.35	\$8.95
LM311	8	Voltage comparator	ZL-3311	\$1.95	\$1.75	\$1.35
LM319	14	High speed dual comparator	ZL-3319	\$3.75	\$3.30	\$2.60
LM324	14	Quad low power op-amp	ZL-3324	\$2.35	\$2.09	\$1.60
LM334Z	3	Adjustable current source	ZL-3334	\$2.75	\$2.45	\$1.90
LM335Z	3	Temperature sensor T092	ZL-3336	\$4.50	\$3.95	\$3.15
LM339	14	Quad low power comparator	ZL-3339	\$1.95	\$1.75	\$1.35
LM348	14	Quad 741 op-amp	ZL-3348	\$2.75	\$2.45	\$1.90
LM358	8	Dual low power op-amp	ZL-3358	\$2.25	\$2.00	\$1.55
LM380	14	Audio power amp 2.5W	ZL-3380	\$3.45	\$3.05	\$2.35
LM386N-1	8	Low voltage audio amp 325mW	ZL-3386	\$2.75	\$2.45	\$1.90
LM393	8	Low power dual comparator	ZL-3393	\$2.25	\$2.00	\$1.55
LM567	8	Low power tone decoder	ZL-3567	\$3.75	\$3.30	\$2.60
LM741	8	General purpose op-amp	ZL-3741	\$1.95	\$1.75	\$1.35

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
LM747	14	Dual op-amp	ZL-3747	\$5.50	\$4.90	\$3.75
LM833N	8	Dual low noise opamp	ZL-3833	\$3.20	\$2.83	\$2.20
LM1458	8	Dual op-amp	ZL-3753	\$1.75	\$1.55	\$1.20
LM1875	5	25W audio power amplifier	ZL-3755	\$6.50	\$5.75	\$4.45
LM2917	14	Frequency to voltage convertor	ZL-3930	\$6.50	\$5.75	\$4.45
LM3875T	11	56W audio power amplifier	ZL-3752	\$18.95	\$16.95	\$12.95
LM3876	11	56W audio power amplifier + mute	ZL-3756	\$18.95	\$16.95	\$12.95
LM3900	14	Quad op-amp	ZL-3900	\$2.75	\$2.45	\$1.90
LM3914	18	LED bar/dot driver (linear)	ZL-3914	\$8.25	\$7.25	\$5.75
LM3915	18	LED bar/dot driver (logarithmic)	ZL-3915	\$8.25	\$7.25	\$5.75
LM4136	14	Quad high performance op-amp	ZL-3936	\$3.95	\$3.55	\$2.75
LM4558	8	Dual high performance op-amp	ZL-3958	\$1.75	\$1.55	\$1.20
LM7555	8	CMOS timer	ZL-3455	\$2.15	\$1.85	\$1.25
LMC6482AIN	8	Dual CMOS op-amp	ZL-3482	\$5.95	\$5.35	\$4.15
LMC6484AIN	14	Quad CMOS op-amp	ZL-3484	\$7.95	\$7.10	\$5.50
NE555	8	555 timer	ZL-3555	\$1.50	\$1.35	\$1.05
NE556	14	Dual 555 timer	ZL-3556	\$1.95	\$1.75	\$1.35
NE5534N	8	Low noise op-amp	ZL-3970	\$3.95	\$3.55	\$2.75
NE5534AN	8	Ultra low noise op-amp	ZL-3971	\$4.85	\$4.30	\$3.30
OP07C/D	8	Precision op-amp	ZL-3974	\$4.75	\$4.25	\$3.30
OPA2134PA	8	Dual high perf audio op-amp	ZL-3972	\$8.95	\$7.95	\$6.25
TL071/LF351	8	Single low noise JFET op-amp	ZL-3071	\$2.15	\$1.90	\$1.50
TL072/LF353	8	Dual low noise JFET op-amp	ZL-3072	\$2.15	\$1.90	\$1.50
TL074/LF347	14	Quad low noise JFET op-amp	ZL-3074	\$2.75	\$2.45	\$1.90
TL084	14	Quad JFET op-amp	ZL-3084	\$2.50	\$2.20	\$1.75

SMD Linear ICs

SMD op-amp ICs for audio applications.

- Packs of 10



Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
LM324M	SOIC14	Quad low power op-amp	ZL-3342	\$29.95	\$26.90	\$20.70
μA741CD	SOIC8	General purpose op-amp	ZL-3070	\$9.95	\$8.95	\$6.95

SMD 555 & 556 Dual Timer ICs

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200mA
- Output and supply TTL compatible
- Normally on and normally off output
- Sold as a pack of 10

Applications:

- Timing
- Pulse generation
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator



Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
NE555D	SOIC8	555 timer	ZL-3550	\$13.95	\$12.35	\$9.75

MICROCHIP MILESTONES

THE 555 TIMER IC

It would be a mean-spirited person who did not concede that the 555 Timer IC was - and still is - the most popular chip ever made.

Invented in 1971 by a U.S. company called Signetics it has a number of really useful features. Firstly it's a timer. It's a pulse generator and finally an oscillator, all in an 8 pin package.

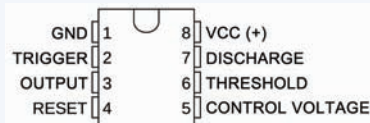
The original version was fabricated with bipolar transistors, and although still popular a CMOS version is now dominant. The bipolar version, like 74 series TTL drew a lot of current and also created an annoying amount of switching noise on power supply rails.

Such is the popularity of this circuit, it is available in standard bipolar, CMOS in single, double and quad timer packages.

Jaycar still carry the product in original form, (555) dual 556, CMOS 7555 and in surface mount in single and dual versions.

It was said that the name 555 came from the fact that the circuit contained 3 x 5k resistors used within. The inventor of the original device, Hans Camenzind disputes this, saying that the number of the part was arbitrary.

Whatever, the fact is that around a billion of them are made every year in one form or another.



RELATED PRODUCTS

41 Projects Using 741 IC

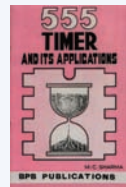
By M C Sharma. The 741 OP amp IC is very inexpensive yet is comparable to the best in respect of versatility and performance. We can't list every one of the 41 kits but here are a few examples: inverting and non-inverting AC and DC amps, crystal, magnetic, guitar, telephone and mic preamps, 3W and 12W amps, intercom, AC and DC motor control, schmitt trigger, square wave generator, flasher, timer light op relay, DC voltmeter, AC millivoltmeter, RPM counter, A to D converter, etc.



↑	Cat.	Qty 1+
Soft cover, 37 pages 140 x 210mm	BM-2430	\$7.50

555 Timer & Its Applications

The 555 Timer IC is probably the most used IC in the world. It gives accurate timing range of micro seconds to hours. This book describes the functions and operation of the 555, then explains 21 projects to build using the IC. Some of these include photo timer, touch plate controller, car wiper control, car lights turn off, flashers, generators, delays auto power on and off, Ni-Cd charger, frequency divider, light operated relay, etc. An ideal book for the electronic hobbyist and experimenter.



↑	Cat.	Qty 1+
Soft cover, 43 pages 138 x 208mm	BM-2466	\$7.00

CMOS SERIES



- Standard CMOS logic
- Major brands only

Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
4001	14	Quad 2 input NOR gate	ZC-4001	\$1.15	\$0.95	\$0.65
4007	14	Dual comp pair plus inverter	ZC-4007	\$1.35	\$1.15	\$0.80
4009	16	Hex buffer (inverting)	ZC-4009	\$1.75	\$1.50	\$1.05
4011	14	Quad 2 input NAND gate	ZC-4011	\$1.15	\$0.95	\$0.65
4012	14	Dual 4 input NAND Gate	ZC-4012	\$1.95	\$1.70	\$1.15
4013	14	Dual D flip-flop	ZC-4013	\$1.15	\$0.95	\$0.65
4015	16	Dual 4 bit static shift register	ZC-4015	\$1.75	\$1.50	\$1.05
4016	14	Quad bi-lateral switch	ZC-4016	\$1.15	\$0.95	\$0.65
4017	16	Decade counter/divider	ZC-4017	\$1.15	\$0.95	\$0.65
4018	16	Presetable divide by N counter	ZC-4018	\$2.75	\$2.35	\$1.65
4020	16	14-stage ripple carry binary counter	ZC-4020	\$1.95	\$1.65	\$1.15
4021	16	8-stage static shift register	ZC-4021	\$1.95	\$1.65	\$1.15
4022	16	Divide-by-8 counter/divider	ZC-4022	\$1.95	\$1.65	\$1.15
4023	14	Triple 3 input NAND gate	ZC-4023	\$1.25	\$1.05	\$0.75
4024	14	7-stage ripple carry binary counter	ZC-4024	\$1.25	\$1.05	\$0.75
4025	14	Triple 3-input NOR gate	ZC-4025	\$1.25	\$1.05	\$0.75
4026	16	Decade counter with 7 segment output	ZC-4026	\$2.45	\$2.10	\$1.45
4027	16	Dual JK flip-flop	ZC-4027	\$1.15	\$0.95	\$0.65
4028	16	BCD-to-Decimal Decoder	ZC-4028	\$1.15	\$0.95	\$0.65
4029	16	Presetable bin/decade up/down cnt	ZC-4029	\$1.75	\$1.50	\$1.05
4030	14	Quad 2 input exclusive OR gate	ZC-4030	\$1.75	\$1.50	\$1.05
4040	16	12-stage ripple carry binary counter	ZC-4040	\$1.75	\$1.50	\$1.05
4046	16	Micropower phase locked loop (PLL)	ZC-4046	\$1.95	\$1.65	\$1.15
4047	14	Monostable/Astable multivibrator	ZC-4047	\$2.15	\$1.85	\$1.25
4049	16	Hex buffer (inverting)	ZC-4049	\$1.15	\$0.95	\$0.65
4050	16	Hex buffer (non-inverting)	ZC-4050	\$1.25	\$1.10	\$0.75
4051	16	Single 8 channel analog mux/demux	ZC-4051	\$1.75	\$1.50	\$1.05
Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
4052	16	Dual 4 channel analog mux/demux	ZC-4052	\$1.15	\$0.95	\$0.65
4053	16	Triple 2 channel analog mux/demux	ZC-4053	\$1.75	\$1.50	\$1.05
4056	16	BCD to 7seg LCD decoder/driver	ZC-4056	\$2.75	\$2.35	\$1.65
4060	16	14-stage ripple carry binary counter	ZC-4060	\$1.75	\$1.50	\$1.05
4066	14	Quad bi-lateral switch	ZC-4066	\$1.15	\$0.95	\$0.65
4069	14	Hex inverter	ZC-4069	\$1.15	\$0.95	\$0.65
4070	14	Quad 2 input exclusive OR gate	ZC-4070	\$1.15	\$0.95	\$0.65
4071	14	Quad 2 input OR gate	ZC-4071	\$1.15	\$0.95	\$0.65
4073	14	Triple 3 input AND gate	ZC-4073	\$1.15	\$0.95	\$0.65
4075	14	Triple 3 input OR gate	ZC-4075	\$1.75	\$1.50	\$1.05
4076	16	4 bit tri-state D-type register	ZC-4076	\$1.75	\$1.50	\$1.05
4077	14	Quad 2 input exclusive NOR gate	ZC-4077	\$1.75	\$1.50	\$1.05
4081	14	Quad 2 input AND gate	ZC-4081	\$1.25	\$1.05	\$0.75
4093	14	Quad 2 input NAND schmitt trigger	ZC-4093	\$1.65	\$1.40	\$0.95
4094	16	8-bit tri-state shift register/latch	ZC-4094	\$1.65	\$1.40	\$0.95
40106	14	Hex schmitt trigger (inverting)	ZC-4914	\$1.75	\$1.50	\$1.05
4502	16	Strobed hex tri-state inverter	ZC-4502	\$2.15	\$1.85	\$1.25
4510	16	BCD up/down counter + preset	ZC-4510	\$1.95	\$1.65	\$1.15
4511	16	BCD to 7seg decoder/driver	ZC-4511	\$1.95	\$1.65	\$1.15
4514	24	4-bit latched 4 to 16 line decoder	ZC-4514	\$4.95	\$4.30	\$2.90
4516	16	Binary up/down counter + preset	ZC-4516	\$2.65	\$2.30	\$1.55
4518	16	Dual BCD up counter	ZC-4518	\$2.15	\$1.85	\$1.25
4520	16	Dual binary up counter	ZC-4520	\$1.95	\$1.65	\$1.15
4528	16	Dual monostable multivibrator	ZC-4528	\$1.50	\$1.25	\$0.90
4538	16	Dual precision monostable multivibrator	ZC-4538	\$2.65	\$2.30	\$1.55
4543	16	BCD to 7seg LCD latch/decoder/driver	ZC-4543	\$1.75	\$1.50	\$1.05
4553	16	3 digit BCD counter	ZC-4553	\$7.85	\$6.90	\$4.70

MICROCONTROLLER - ATMEL

ATMEL Microcontrollers



For full range of
Arduino parts see
pages 76 to 102.

ATmega328P MCU with Arduino Uno Bootloader

An ATMEL AVR ATmega328P microcontroller for you to build your very own customised Arduino compatible projects. For your convenience it comes with the Arduino Uno bootloader pre-installed and features a special label on top which details the pinouts.



- Includes 16MHz crystal oscillator
- 23 programmable I/O lines
- 6-channel ADC
- 0 - 4MHz @ 1.8 - 5.5V,
- 0 - 10MHz @ 2.7 - 5.5V,
- 0 - 20MHz @ 4.5 - 5.5V
- 28-pin DIP format for easy use in breadboards or Arduino compatible boards

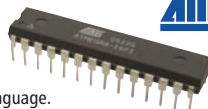


↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZZ-8726	\$14.95	\$13.45	\$10.45

Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
AT89C2051-24PC	20	8 bit micro + 2kB flash memory	ZZ-8700	\$3.95	\$3.45	\$2.75
AT90S2313-10PC	20	8 bit micro + 2kB flash memory	ZZ-8710	\$9.95	\$8.95	\$6.95
AT90S1200-12PC	20	8 bit micro + 1kB flash memory	ZZ-8750	\$10.95	\$9.85	\$7.65
ATmega8535-16PU	40	8 bit micro + 8kB flash memory	ZZ-8742	\$9.95	\$8.75	\$6.75
ATmega16-8PC	40	8 bit micro + 16kB flash memory	ZZ-8755	\$12.95	\$11.35	\$8.95
ATmega32-8PC/-16PU	40	8 bit micro + 32kB flash memory	ZZ-8760	\$19.95	\$17.95	\$13.95
ATmega8515-8PC	40	8 bit micro + 8kB flash memory	ZZ-8765	\$9.95	\$8.75	\$6.75

ATmega AVR RISC Microcontrollers - 16MHz

Atmel's AVR microcontrollers utilise their famous RISC core operating at market leading speeds to make some of the best microcontroller products available. Architecture engineered for working with compiled C language programs, there is no longer a need for assembly language or a need for inefficient and unwieldy BASIC, so you can develop your project quicker without having to learn a new language.



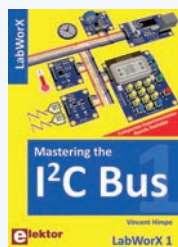
Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
ATmega8-16PI	28	8 bit micro + 8kB flash memory	ZZ-8753	\$8.95	\$7.95	\$6.25
ATmega128-16AI	TQFP64	8 bit micro + 128kB flash memory	ZZ-8770	\$21.95	\$19.75	\$15.35
ATmega162-16PI	40	8 bit micro + 16kB flash memory	ZZ-8772	\$19.95	\$17.95	\$13.95

RELATED PRODUCTS

Mastering the I2C Bus

This book takes you on an exploratory journey of the I²C Bus and its applications. In addition to the Bus protocol, focus is given to practical applications and solid design technique. Full of helpful tips and tricks, this book works equally well as an Introductory guide and as a workshop handbook.

- Soft cover, 250 pages.
- 235 x 170 x 14mm



↑	Cat.	Qty 1+
	BT-1386	\$59.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

TECH TALK!

BASIC LOGIC FUNCTIONS



A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1



A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0



A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1



A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0



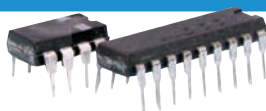
A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0



A	B	Q
0	0	1
0	1	0
1	0	0
1	1	1

MICROCONTROLLER - PIC

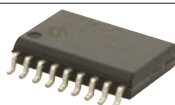
Through Hole



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
PIC12C508A-04P	8	8 Bit Micro	ZZ-8602	\$2.95	\$2.60	\$2.00
PIC12C509A-04P	8	8 Bit Micro	ZZ-8600	\$2.95	\$2.60	\$2.00
PIC12F675	8	8 bit flash micro	ZZ-8603	\$5.95	\$5.25	\$4.15
PIC16C711-20/P	18	8 bit micro + A to D converter	ZZ-8550	\$12.95	\$11.35	\$8.95
PIC16C63A-20/SP	28	8 bit micro + A to D converter	ZZ-8560	\$14.50	\$12.35	\$9.75
PIC16F84A-20/P	18	8 bit flash/EEPROM micro	ZZ-8500	\$12.95	\$11.35	\$8.95
PC16F88-I/P	18	8 bit enhanced flash micro + nanowatt technology	ZZ-8530	\$11.95	\$10.70	\$8.25
PIC16F628-I/P	18	8 bit flash micro	ZZ-8520	\$7.45	\$6.65	\$5.15
PIC16F877A-I/P	40	8 bit enhanced flash micro	ZZ-8540	\$12.95	\$11.35	\$8.95

SMD

- Sold as a pack of 5



Type	Case	Description	Cat	Qty 1+
PIC16C711-20/SO	SOIC18	8 bit micro + A to D converter	ZZ-8552	\$14.95
PIC16F628A-20/SO	SOIC18	8 bit flash micro	ZZ-8510	\$19.95

INTEGRATED CIRCUITS

Special Function

- Major brands only



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
1488	14	Quad line driver RS-232	ZZ-8148	\$3.75	\$3.30	\$2.60
1489	14	Quad line receiver RS-232	ZZ-8149	\$3.75	\$3.30	\$2.60
27C64	28	64k (8k x 8) EPROM	ZZ-8465	\$14.95	\$13.35	\$10.35
27C256	28	256k (32k x 8) EPROM	ZZ-8471	\$14.95	\$13.35	\$10.35
24LC168	8	16k I-C serial EEPROM	ZZ-8480	\$3.75	\$3.30	\$2.60
24LC256	8	256k I-C serial EEPROM	ZZ-8485	\$5.95	\$5.25	\$4.15
ADC0804	20	8 bit A to D converter	ZK-8862	\$14.95	\$13.35	\$10.35
DAC0800LCN	16	8 bit D to A converter	ZK-8864	\$7.95	\$7.10	\$5.50
DAC0802LCN	16	8 bit D to A converter	ZK-8866	\$16.95	\$14.95	\$11.70
L6202	18	Full bridge driver 1.5A 48V	ZK-8874	\$14.95	\$13.35	\$10.35
MAX 232	16	Dual RS232 driver/receiver	ZK-8824	\$6.95	\$6.25	\$4.75
MC34063	8	DC to DC converter	ZK-8837	\$7.95	\$7.10	\$5.50
MC145436	14	DTMF Decoder	ZK-8870	\$9.95	\$8.75	\$6.75
UA494/TL494	16	Switchmode power controller	ZK-8850	\$6.95	\$6.25	\$4.75
ULN2003N	16	7 Darlington array (5V TTL, CMOS)	ZK-8855	\$4.95	\$4.45	\$3.45
XR2206	16	Monolithic function generator	ZK-8830	\$19.95	\$17.70	\$13.70
XR2211	14	FSK demodulator/tone decoder	ZK-8831	\$9.95	\$8.75	\$6.75

8Bit 257 Step Digital Pot - MCP4151-103E/P

8Bit (257 step) digital pots are useful in application that require precision control. They can be used for example in the feedback network of an op amp to provide precise variable gain control, or filters to allow accurate adjustment of the filter properties.



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
MCP4151-103E/P	8	Digital pot 257 step 10k Ohm	ZK-8879	\$3.95	\$3.50	\$2.75

RELATED PRODUCTS

Programming & Customising the PIC Microcontroller Book

Tap into the latest advances in PIC technology with the fully revamped third edition of this brilliant book. Certainly the definitive text on the subject, this indispensable volume comes with more than 600 illustrations and provides comprehensive, easy-to-understand coverage of the PIC microcontroller's hardware and software schemes. With 100 experiments, projects and libraries, you get a firm grasp of PICs, how they work and the ins-and-outs of their most dynamic applications. This updated edition features a streamlined, more accessible format and concentrates on the three major PIC families, to help you fully understand Assembly, BASIC, and C programming languages. It also covers the latest program development tools and includes a refresher in electronics and programming as well as reference material.

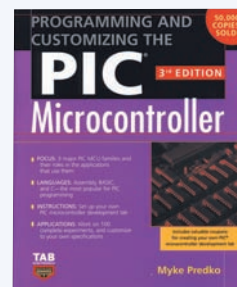
Topics covered:

- Setting up your own PIC microcontroller development lab
- PIC MCU basics
- Useful tables and data
- PIC microcontroller interfacing capabilities, software development, and applications
- Basic electronics

- Digital electronics
- BASIC reference
- C reference
- 16-bit numbers
- Useful circuits and routines to get your applications up & running



BOOK



↑	Cat.	Qty 1+
Soft cover, 1263 pages	BT-1347	\$109.00

Digital Signal Controllers

- High performance enhanced flash digital signal controllers
- 16 bit architecture



Type	Memory	SRAM
dsPIC30F2010	128k/4kB	512B
dsPIC33FJ128GP802	128k	16k

Type	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
dsPIC30F2010	28	ZZ-8575	\$17.95	\$15.95	\$12.35
dsPIC33FJ128GP802	28	ZZ-8605	\$18.95	\$16.95	\$12.95

PIC18F4550 Microcontroller with USB Interface

Adding a USB interface to a project can often be a complex and difficult task, often involving a dedicated IC just to perform the USB control. With this PIC, you can do both I/O logic with your project and perform the USB communications with just one IC. USB will still require a bit of work but it won't be as complex any more as having to source a dedicated IC and learn how to use it. This PIC is ideal for embedded control and monitoring applications which require connection to a computer for data up/download, or firmware updates. This PIC is feature packed:

- Enhanced Flash and nanoWatt technology
- 2Kb memory for data
- Full Speed USB 2.0 interface (12Mbps)
- I²C™ and SPI™ interface (10Mbps)
- Asynchronous serial port
- 48MHz performance (12MIPS)

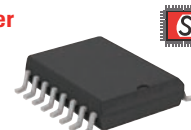


Type	Cat	Qty 1+	Qty 10+	Qty 25+
PIC18F4550	ZZ-8570	\$21.95	\$19.70	\$15.25

SMD SPECIAL FUNCTION ICs

RS-232 Line Driver/Receiver

- Sold as a pack of 10



CASE DESCRIPTION

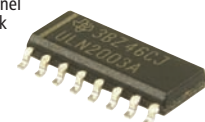
SOIC14	Quad line driver RS-232	ZK-8814
SOIC14	Quad line receiver RS-232	ZK-8876
SOIC16	Dual RS-232 driver/receiver	ZK-8822



Type	Cat.	Qty 1+
MC/DS1488M/D1	ZK-8814	\$4.95
MC/DS1489M/D1	ZK-8876	\$4.95
MAX232CWE	ZK-8822	\$59.95

SMD 7 Darlington Array

High voltage, high current Darlington arrays each contain seven open collector Darlington pairs with common emitters. Each channel rated at 500mA and can withstand peak currents of 600mA. Suppression diodes are included for inductive load driving and the inputs are pinned opposite the outputs to simplify board layout.



- Sold as a pack of 10

Type	Cat.	Qty 1+
ULN2003D	ZK-8858	\$36.95

SPECIALTY ICs

TDA1905 5W Amplifier IC with Mute

Monolithic integrated circuit in POWERDIP package, intended for use as low frequency power amplifier in a wide range of applications in radio and TV sets:

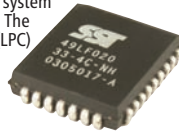
- Muting facility
- High supply voltage rejection
- Voltage range 4V to 30V
- Protection against chip over temperature
- Power dissipation of up to 6W and a thermal resistance of 15°C/W (junction to pins)
- Very low noise
- Low switch-on noise
- Full data on website



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
TDA1905	ZL-3600	\$6.95	\$6.25	\$4.75

SST49LF020 LPC Flash Memory

The SST49LF020 flash memory device is designed to interface with the LPC bus for PC, game console and Internet Appliance applications. It provides protection for the storage and update of code and data in addition to adding system design flexibility through five General Purpose Inputs (GPI). The SST49LF020 is in compliance with the Intel Low Pin Count (LPC) Interface Specification 1.0. Two interface modes are supported: LPC Mode for In-System programming and Parallel Programming (PP) Mode for fast factory programming.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
SST49LF020	ZZ-8900	\$14.95	\$13.35	\$10.35

IC SOCKETS

- All 0.1" (2.54mm) pitch

Low Cost

Production PCB Mount

- Solder tail
- All tin plated phosphor bronze or beryllium copper



Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI-6499	\$0.36	\$0.32	\$0.29
8	0.3"	PI-6500	\$0.38	\$0.34	\$0.30
14	0.3"	PI-6501	\$0.40	\$0.36	\$0.32
16	0.3"	PI-6502	\$0.45	\$0.41	\$0.36
18	0.3"	PI-6503	\$0.50	\$0.45	\$0.40
20	0.3"	PI-6504	\$0.55	\$0.50	\$0.44
22	0.3"	PI-6505	\$0.60	\$0.54	\$0.48
24	0.6"	PI-6506	\$0.65	\$0.59	\$0.52
28	0.6"	PI-6507	\$0.80	\$0.72	\$0.64
40	0.6"	PI-6508	\$1.00	\$0.85	\$0.75

MEMORY CARD SOCKETS - SURFACE MOUNTS

IC/Smart Card Acceptor

These modules are for use in circuit designs incorporating the use of Smart Cards/ IC Cards. They accept either card and feature an internal SPST switch, which is triggered by card insertion. Data sheets and specifications on the website.



MORE INFO
ONLINE
NEW LOW
PRICE

↑	Cat.	Qty 1+
Through Hole Mount	PS-0010	\$4.95

Gold Insert Machined Pin

- Anti-wicking very high quality.
- Ideal for professional / portable or field service equipment.



Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI-6450	\$1.15	\$1.00	\$0.90
8	0.3"	PI-6452	\$1.25	\$1.10	\$1.00
14	0.3"	PI-6454	\$1.40	\$1.25	\$1.10
16	0.3"	PI-6456	\$1.65	\$1.45	\$1.30
18	0.3"	PI-6458	\$2.45	\$2.21	\$1.95
20	0.3"	PI-6460	\$2.65	\$2.35	\$2.07
22	0.3"	PI-6462	\$2.75	\$2.45	\$2.15
28	0.6"	PI-6466	\$3.25	\$2.90	\$2.60
40	0.6"	PI-6468	\$4.50	\$3.95	\$3.60

IC Socket Strips

WIRE WRAP PINS

- Gold insert
- 0.1" pitch
- Machined pin



↑	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
	20 Way	PI-6473	\$5.95	\$5.25	\$4.75
	32 Way	PI-6472	\$8.50	\$7.50	\$6.75

STANDARD PINS

- Gold insert
- 0.1" pitch
- Machined pin



↑	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
	32 Way	PI-6470	\$3.95	\$3.50	\$3.15

ZIF Sockets

Zero Insertion Force. Drop the device in and close the lever to contact pins. Ideal for production testing.



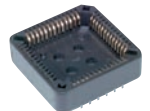
↑	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
	18	PI-6480	\$9.95	\$8.95	\$7.95
	28	PI-6483	\$14.50	\$12.35	\$10.95
	40	PI-6484	\$15.95	\$14.35	\$12.75

PLCC Sockets

THROUGH HOLE

- Gold plated phosphor bronze contacts.
- Height: 7.7mm

Size	Size L x W mm	Cat.	Qty 1+	Qty 10+	Qty 25+
28 pin	18 x 18	PI-6600	\$2.95	\$2.60	\$2.40
32 pin	20.6 x 20.6	PI-6602	\$3.45	\$3.05	\$2.75
44 pin	23.5 x 23.5	PI-6604	\$3.95	\$3.45	\$3.15
52 pin	26 x 26	PI-6606	\$4.50	\$3.95	\$3.60



SURFACE MOUNT

- Silver plated phosphor bronze contacts.
- Height: 4.5mm

Size	Size L x W mm	Cat.	Qty 1+
28 pin	18 x 18	PI-6620	\$0.95
84 pin	36 x 36	PI-6630	\$0.95



RELATED PRODUCTS

Soldering Heatsink & Component Holder

This quality small tool is ideal as a heatsink when soldering to remove some of the heat from the semiconductor/ component while soldering. It can also be used to hold small parts while soldering to avoid burnt fingers. Supplied with insulated handles.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
65mm long	TD-2122	\$7.95	\$7.10	\$6.25

IC Extractor

Deceptively simple looking device.

- One piece metal construction
- 8 - 40 pins



NERD
PERKS
2x
POINTS

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1818	\$3.75	\$3.30	\$2.95

PLCC Extractor

There's really only one way to remove a PLCC safely - and this is it. Basically a spring assisted clip carrier extractor, specifically designed for the safe and hassle free removal of PLCCs from sockets.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1816	\$13.95	\$12.35	\$10.95

Budget SMD Vacuum Pickup Tool

Fits into your pocket and uses vacuum pressure to pick up your sensitive components without damaging them.

- Easy to use, one-hand operation.
- Picks up to 20g in weight.
- Supplied with 3 vacuum pads.



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1978	\$17.95	\$15.95	\$14.35

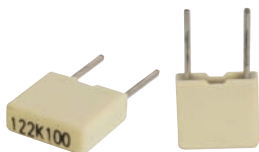
COMPONENTS POLYESTER & TRIMMER CAPACITORS

CAPACITORS

100VDC MKT Miniature Polyester

- Rated voltage: 100VDC working, 40VAC 50/60Hz

Capacitance	Width	Depth	Height (mm)
0.001 - 0.08 μ F	7.5	2.5	6.5
0.10 - 0.22 μ F	7.5	3.2	8
0.27 - 0.56 μ F	7.5	5	8
0.68 μ F	7.5	6	9.6
1.5 μ F	26	7	16



Value (μ F)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	5	RM-7010	\$0.35	\$0.24	\$0.21
0.0012	1.2	5	RM-7012	\$0.35	\$0.24	\$0.21
0.0015	1.5	5	RM-7015	\$0.35	\$0.24	\$0.21
0.0022	2.2	5	RM-7022	\$0.35	\$0.24	\$0.21
0.0027	2.7	5	RM-7027	\$0.35	\$0.24	\$0.21
0.0033	3.3	5	RM-7033	\$0.35	\$0.24	\$0.21
0.0039	3.9	5	RM-7039	\$0.35	\$0.24	\$0.21
0.0047	4.7	5	RM-7047	\$0.35	\$0.24	\$0.21
0.0068	6.8	5	RM-7055	\$0.35	\$0.24	\$0.21
0.010	10	5	RM-7065	\$0.35	\$0.24	\$0.21
0.012	12	5	RM-7070	\$0.35	\$0.24	\$0.21
0.015	15	5	RM-7075	\$0.35	\$0.24	\$0.21
0.018	18	5	RM-7080	\$0.35	\$0.24	\$0.21
0.022	22	5	RM-7085	\$0.35	\$0.24	\$0.21
0.033	33	5	RM-7095	\$0.35	\$0.24	\$0.21
0.039	39	5	RM-7100	\$0.35	\$0.24	\$0.21
0.047	47	5	RM-7105	\$0.35	\$0.24	\$0.21
0.056	56	5	RM-7110	\$0.35	\$0.24	\$0.21
0.068	68	5	RM-7115	\$0.35	\$0.24	\$0.21
0.082	82	5	RM-7120	\$0.40	\$0.27	\$0.24
0.10	100	5	RM-7125	\$0.40	\$0.27	\$0.24
0.12	120	5	RM-7130	\$0.40	\$0.27	\$0.24
0.15	150	5	RM-7135	\$0.45	\$0.30	\$0.25
0.18	180	5	RM-7140	\$0.45	\$0.30	\$0.25
0.22	220	5	RM-7145	\$0.45	\$0.30	\$0.25
0.27	270	5	RM-7150	\$0.65	\$0.45	\$0.37
0.33	330	5	RM-7153	\$0.65	\$0.45	\$0.37
0.39	390	5	RM-7159	\$0.65	\$0.45	\$0.37
0.47	470	5	RM-7165	\$0.65	\$0.45	\$0.37
0.56	560	5	RM-7166	\$0.85	\$0.57	\$0.50
0.68	680	5	RM-7168	\$0.85	\$0.57	\$0.50
1.00	1000	5	RM-7170	\$0.95	\$0.65	\$0.55
1.50	1500	23	RM-7172	\$1.25	\$0.85	\$0.75

250VDC Metallised Polypropylene

- Ideal for speaker crossovers
- Axial

Metallised polypropylene dielectric offers stable capacitance over a wide temperature range. This, and the relatively high capacitance for size makes them ideal for high quality loudspeaker crossover networks. Naturally, they are also suitable for other applications where a stable, non polarised capacitive component is required.



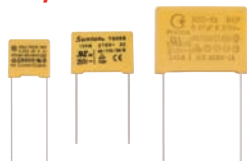
High Quality

Value (μ F)	W x D x H (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1.0	25 x 15.9 x 8.4	RY-6950	\$3.95	\$2.75	\$2.30
1.5	29 x 17.2 x 9.6	RY-6951	\$4.95	\$3.95	\$3.45
2.2	32 x 19.2 x 10.1	RY-6952	\$5.65	\$4.60	\$4.15
3.3	32 x 22.2 x 13.0	RY-6953	\$7.95	\$6.25	\$5.50
4.7	32 x 22.0 x 15.0	RY-6954	\$12.50	\$8.75	\$7.75
5.6	46 x 20.0 x 12.0	RY-6955	\$13.50	\$9.75	\$8.75
6.8	46 x 22.2 x 14.3	RY-6956	\$14.50	\$11.35	\$10.35
8.2	46 x 23.0 x 16.0	RY-6957	\$17.95	\$13.35	\$11.70
10.	56 x 29.0 x 20.7	RY-6958	\$18.95	\$14.95	\$13.35

250VAC - Metallised Polypropylene - X2 Style



Voltage rating: 275/250VAC
Capacitance tolerance: +/-10% std +/-5%
Operating temperature: -40°C to 85°C



Value (μ F)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	10	RG-5230	\$0.95	\$0.65	\$0.55
0.022	22	10	RG-5232	\$0.95	\$0.65	\$0.55
0.047	47	15	RG-5234	\$0.95	\$0.65	\$0.55
0.10	100	15	RG-5236	\$1.25	\$0.85	\$0.75
0.22	220	22.5	RG-5238	\$1.35	\$0.90	\$0.80
0.47	470	22.5	RG-5240	\$3.75	\$2.60	\$2.20
1.0	1000	27.5	RG-5248	\$4.25	\$2.90	\$2.45

Greencaps Polyester or Mylar

- Supplied loose
- Operating temperature: -40°C to +85°C



100VDC

Value (μ F)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	4	RG-5010	\$0.30	\$0.21	\$0.18
0.0012	1.2	4	RG-5012	\$0.30	\$0.21	\$0.18
0.0015	1.5	4	RG-5015	\$0.30	\$0.21	\$0.18
0.0018	1.8	4	RG-5018	\$0.30	\$0.21	\$0.18
0.0022	2.2	4	RG-5022	\$0.30	\$0.21	\$0.18
0.0027	2.7	4	RG-5027	\$0.30	\$0.21	\$0.18
0.0033	3.3	4	RG-5033	\$0.30	\$0.21	\$0.18
0.0039	3.9	4	RG-5039	\$0.30	\$0.21	\$0.18
0.0047	4.7	4	RG-5047	\$0.30	\$0.21	\$0.18
0.0056	5.6	4	RG-5050	\$0.30	\$0.21	\$0.18
0.0068	6.8	4	RG-5055	\$0.30	\$0.21	\$0.18
0.0082	8.2	4	RG-5060	\$0.30	\$0.21	\$0.18
0.010	10	4	RG-5065	\$0.30	\$0.21	\$0.18
0.012	12	4	RG-5070	\$0.30	\$0.21	\$0.18
0.015	15	5	RG-5075	\$0.30	\$0.21	\$0.18
0.018	18	5	RG-5080	\$0.30	\$0.21	\$0.18
0.022	22	5	RG-5085	\$0.30	\$0.21	\$0.18
0.027	27	5	RG-5090	\$0.30	\$0.21	\$0.18
0.033	33	5	RG-5095	\$0.30	\$0.21	\$0.18
0.039	39	5	RG-5100	\$0.30	\$0.21	\$0.18
0.047	47	5	RG-5105	\$0.30	\$0.21	\$0.18
0.056	56	6	RG-5110	\$0.30	\$0.21	\$0.18
0.068	68	6.5	RG-5115	\$0.30	\$0.21	\$0.18
0.082	82	6.5	RG-5120	\$0.30	\$0.21	\$0.18
0.10	100	7	RG-5125	\$0.30	\$0.21	\$0.18
0.12	120	7	RG-5130	\$0.30	\$0.21	\$0.18
0.15	150	7.5	RG-5135	\$0.30	\$0.21	\$0.18
0.18	180	7.5	RG-5140	\$0.30	\$0.21	\$0.18
0.22	220	7.5	RG-5145	\$0.30	\$0.21	\$0.18
0.27	270	7.5	RG-5150	\$0.42	\$0.29	\$0.25
0.33	330	8	RG-5153	\$0.42	\$0.29	\$0.25

100VDC LARGE VALUES Suitable for speaker crossovers, etc.

Value (μ F)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.47	470	11	RG-5165	\$0.40	\$0.28	\$0.24
0.56	560	15	RG-5166	\$0.60	\$0.42	\$0.36
0.68	680	11	RG-5168	\$1.75	\$1.20	\$1.05
0.82	820	15	RG-5169	\$1.75	\$1.20	\$1.05
1.00	1000	11	RG-5170	\$2.25	\$1.55	\$1.35
1.50	1500	20	RG-5172	\$3.45	\$2.35	\$2.00
2.20	2200	11	RG-5175	\$3.45	\$2.35	\$2.00
3.30	3300	21	RG-5180	\$3.45	\$2.35	\$2.00

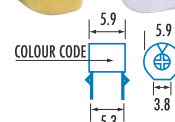
630VDC

Value (μ F)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	9	RG-5201	\$0.60	\$0.42	\$0.36
0.022	22	9	RG-5202	\$0.80	\$0.56	\$0.48
0.033	33	14	RG-5203	\$0.95	\$0.65	\$0.55
0.047	47	10	RG-5204	\$0.95	\$0.65	\$0.55
0.047	47	14	RG-5205	\$0.95	\$0.65	\$0.55
0.10	100	14	RG-5210	\$1.40	\$0.95	\$0.80
0.22	220	14	RG-5222	\$1.40	\$0.95	\$0.80
0.47	470	26	RG-5247	\$1.95	\$1.35	\$1.15

TRIMMERS



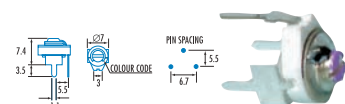
Specifications	All
Working Voltage	50V DC
Insulation Resistance	>104M Ω min @ 250VDC
Operating Temp	-30°C to +85
Withstand Voltage	110VDC
Turning Torque	20 to 200gr/cm



Capacitance (pF)	Temp Coeff	Colour	Cat.	Qty 1+	Qty 25+	Qty 100+
3-10	N470	White	RV-5714	\$1.85	\$1.65	\$1.25
6.2-30	N750	Green	RV-5716	\$1.85	\$1.65	\$1.25
6.8-40	N1200	Yellow	RV-5718	\$1.85	\$1.65	\$1.25
9.8-50	N1200	Brown	RV-5720	\$1.85	\$1.65	\$1.25

8.5-100pF Ceramic Trimmer

Specifications	RV-5722
Working voltage	225VDC.
Insulation resistance	>104M Ω min at 250VDC.
Withstand voltage	500VDC.
Temperature coefficient	N2200.
Colour	Purple



Capacitance (pF)	Voltage	Cat.	Qty 1+	Qty 25+	Qty 100+
8.5-100	225VDC	RV-5722	\$2.95	\$2.00	\$1.75

CAPACITORS (CONTINUED)

50V Ceramic

1pF - 10pF \pm 1/4pF
 12pF - 100pF \pm 5%
 120pF - 0.022 μ F \pm 10% (Y5P)
 0.033 μ F - 0.1 μ F \pm 20% (Y5U)

- 5mm lead spacing • Low inductance

Value (pF)	Cat.	Value (pF)	Cat.
Pkt 2	Pkt 2	Pkt 2	Pkt 2
1.0	RC-5300	120	RC-5325
1.2	RC-5301	150	RC-5326
1.5	RC-5302	180	RC-5327
1.8	RC-5303	220	RC-5328
2.2	RC-5304	270	RC-5329
2.7	RC-5305	330	RC-5330
3.3	RC-5306	390	RC-5331
3.9	RC-5307	470	RC-5332
4.7	RC-5308	560	RC-5333
5.6	RC-5309	680	RC-5334
6.8	RC-5310	820	RC-5335
8.2	RC-5311	1000	RC-5336
10	RC-5312	2200	RC-5340
12	RC-5313	3300	RC-5342
15	RC-5314	4700	RC-5344
18	RC-5315	5600	RC-5345
22	RC-5316	6800	RC-5346
27	RC-5317	8200	RC-5347
33	RC-5318	0.01 μ F	RC-5348
39	RC-5319	0.022 μ F	RC-5352
47	RC-5320	0.033 μ F	RC-5354
56	RC-5321	0.047 μ F	RC-5356
68	RC-5322	0.1 μ F	RC-5360
82	RC-5323		
100	RC-5324		

Pkt 2	Qty 1+	Qty 25+	Qty 100+
All RC Cat Nos (Pkt 2)	\$0.32	\$0.22	\$0.19

0.22 μ F 220N Lead spacing 5mm

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
(Each)	RC-5364	\$0.68	\$0.48	\$0.41

50VDC Monolithic

Lead spacing 5mm, low impedance



↑	Value (μ F)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
	0.01	each	RC-5480	\$0.35	\$0.25	\$0.21
	0.022	each	RC-5482	\$0.35	\$0.25	\$0.21
	0.047	each	RC-5486	\$0.35	\$0.25	\$0.21
	0.10	each	RC-5490	\$0.35	\$0.25	\$0.21
	0.10	100	RC-5496	\$9.95	\$6.75	\$5.75
	0.22	each	RC-5494	\$0.38	\$0.27	\$0.23
	0.47	each	RC-5498	\$0.75	\$0.53	\$0.45
	1.0	each	RC-5499	\$0.75	\$0.53	\$0.45

50VDC Bi-Polar RB Electrolytic - 85°C



Value (μ F)	Size (mm)	Pitch (mm)	Ripple (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5 x 11	2.0	8	RY-6802	\$0.55	\$0.39	\$0.33
2.2	5 x 11	2.0	20	RY-6804	\$0.55	\$0.39	\$0.33
3.3	5 x 11	2.0	25	RY-6805	\$0.55	\$0.39	\$0.33
4.7	5 x 11	2.0	30	RY-6806	\$0.55	\$0.39	\$0.33
6.8	5 x 11	2.0	40	RY-6808	\$0.55	\$0.39	\$0.33
10	6.3 x 11	2.5	48	RY-6810	\$0.55	\$0.39	\$0.33
22	8 x 11	3.5	82	RY-6816	\$0.95	\$0.65	\$0.55
33	8 x 11	3.5	98	RY-6818	\$1.15	\$0.80	\$0.65
47	8 x 11	3.5	140	RY-6820	\$1.65	\$1.15	\$0.95
100	10 x 20	5.0	245	RY-6825	\$2.95	\$2.00	\$1.75

3kV High Voltage Ceramic

Value 0.01 μ F.



↑	Value(μ F)	Cat.	Qty 1+	Qty 25+	Qty 100+
	0.01	RC-5380	\$2.95	\$2.00	\$1.75

CAPACITORS - TAG TANTALUM

Tag Tantalum Thru-Hole

- Resin dipped case
- Price per each
- 5mm lead spacing



16V



Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
4.7	5.0	RZ-6636	\$0.75	\$0.53	\$0.45
6.8	5.0	RZ-6642	\$1.15	\$0.80	\$0.65
10	5.0	RZ-6648	\$1.15	\$0.80	\$0.65
15	5.0	RZ-6657	\$1.15	\$0.80	\$0.65
22	5.0	RZ-6658	\$1.15	\$0.80	\$0.65
33	5.0	RZ-6665	\$2.65	\$1.85	\$1.55
47	5.0	RZ-6670	\$2.65	\$1.85	\$1.55

25V

Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5.0	RZ-6627	\$0.75	\$0.53	\$0.45
10	5.0	RZ-6650	\$1.15	\$0.80	\$0.65

35V

Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.10	5.0	RZ-6620	\$0.75	\$0.53	\$0.45
0.22	5.0	RZ-6622	\$0.75	\$0.53	\$0.45
0.33	5.0	RZ-6624	\$0.75	\$0.53	\$0.45
0.47	5.0	RZ-6626	\$0.75	\$0.53	\$0.45
1.0	5.0	RZ-6628	\$0.75	\$0.53	\$0.45
1.5	5.0	RZ-6630	\$0.75	\$0.53	\$0.45
2.2	5.0	RZ-6632	\$0.75	\$0.53	\$0.45
4.7	5.0	RZ-6640	\$0.95	\$0.65	\$0.55
6.8	5.0	RZ-6645	\$1.15	\$0.80	\$0.65
10	5.0	RZ-6655	\$1.15	\$0.80	\$0.65

PROTOTYPE PACKS - CAPACITORS

Prototype Packs - Capacitors

- Ideal for prototyping



CAT. RC-5399
CERAMIC PACK OF 60



CAT. RG-5199
100V GREENPACK PACK OF 60



CAT. RM-7190
MKT PACK OF 50



CAT. RE-6250
ELECTROLYTIC PACK OF 55

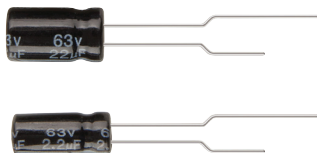
Value	Pack	Cat.	Qty 1+	Qty 25+	Qty 100+
10pF - 100nF	60	RC-5399	\$9.95	\$6.75	\$5.75
0.001 μ F - 0.22 μ F	60	RG-5199	\$11.95	\$8.25	\$6.95
0.001 μ F - 0.47 μ F	50	RM-7190	\$16.95	\$11.85	\$10.15
1 μ F - 470 μ F	55	RE-6250	\$13.50	\$8.95	\$7.75

COMPONENTS

ELECTROLYTIC CAPACITORS

CAPACITORS (CONTINUED)

PC Mount RB Electrolytic - 105°C



10V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
220	5.0	6.5 x 11	180	RE-6157	\$0.35	\$0.25	\$0.21

16V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE-6066	\$0.30	\$0.21	\$0.18
22	2.0	5 x 11	60	RE-6079	\$0.30	\$0.21	\$0.18
47	2.0	5 x 11	100	RE-6100	\$0.35	\$0.25	\$0.21
100	2.5	6.3 x 11	170	RE-6130	\$0.35	\$0.25	\$0.21
220	3.5	8 x 12	280	RE-6158	\$0.40	\$0.28	\$0.24
330	3.5	8 x 12	360	RE-6188	\$0.50	\$0.35	\$0.30
470	3.5	8 x 16	460	RE-6194	\$0.60	\$0.42	\$0.36
1000	5.0	10 x 16	760	RE-6220	\$0.95	\$0.65	\$0.55
2200	5.0	13 x 23	1250	RE-6238	\$1.15	\$0.80	\$0.65
4700	7.5	16 x 26	1960	RE-6243	\$2.25	\$1.55	\$1.35

25V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE-6070	\$0.35	\$0.25	\$0.21
22	2.0	5 x 11	70	RE-6090	\$0.35	\$0.25	\$0.21
33	2.0	5 x 11	95	RE-6095	\$0.35	\$0.25	\$0.21
47	2.5	5 x 11	120	RE-6110	\$0.35	\$0.25	\$0.21
100	2.5	6.3 x 11	180	RE-6140	\$0.45	\$0.32	\$0.27
220	3.5	8 x 12	320	RE-6160	\$0.45	\$0.32	\$0.27
330	5.0	10 x 13	420	RE-6190	\$0.70	\$0.49	\$0.42
470	5.0	10 x 16	540	RE-6195	\$0.75	\$0.53	\$0.45
1000	5.0	13 x 20	900	RE-6230	\$1.15	\$0.80	\$0.65
2200	5.0	13 x 26	1460	RE-6240	\$1.50	\$1.05	\$0.90
4700	7.5	16 x 35	2150	RE-6244	\$3.45	\$2.35	\$2.00

50V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
47	2.0	5 x 11	35	RE-6058	\$0.35	\$0.25	\$0.21
220	5.0	10 x 17	430	RE-6180	\$1.20	\$0.80	\$0.70
2200	7.5	16 x 35	1900	RE-6241	\$3.25	\$2.25	\$1.90
4700	10	22 x 40	2280	RE-6245	\$5.75	\$3.95	\$3.40

63V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
47	2.0	5 x 11	8	RE-6020	\$0.30	\$0.21	\$0.18
10	2.0	5 x 11	15	RE-6032	\$0.30	\$0.21	\$0.18
22	2.0	5 x 11	22	RE-6042	\$0.30	\$0.21	\$0.18
33	2.0	5 x 11	30	RE-6045	\$0.30	\$0.21	\$0.18
47	2.0	5 x 11	40	RE-6060	\$0.35	\$0.25	\$0.21
100	2.0	5 x 11	65	RE-6075	\$0.35	\$0.25	\$0.21
220	2.5	6.3 x 11.5	100	RE-6080	\$0.35	\$0.25	\$0.21
470	3.5	8 x 12	180	RE-6122	\$0.45	\$0.32	\$0.27
1000	5.0	8 x 16	280	RE-6150	\$0.95	\$0.65	\$0.55
4700	5.0	13 x 25	880	RE-6210	\$1.65	\$1.15	\$0.95
10000	7.5	16 x 30	1400	RE-6236	\$2.45	\$1.70	\$1.45

TECH TALK!

105°C ELECTROLYTIC CAPACITORS

Our range of RB PC mount electrolytics up to 63 Volt are 105°C rated. This range for more reliable service.

Consider this when making price comparisons with competitors' 85°C products.

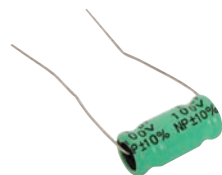
PC Mount RB Electrolytic - 85°C

35V

Value (μ F)	Pitch (mm)	\varnothing x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
22	5.0	5 x 11	80	RE-6092	\$0.35	\$0.25	\$0.21

100VDC Non-Polarised Crossover Type - 85°C

This range is ideal for crossover networks and will handle high power but are suitable for other applications of course. The range includes large values - up to 400 μ F (required for subwoofers). All capacitors have RT or axial leads.



Value (μ F)	\varnothing x L (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1	8 x 17	RY-6901	\$2.10	\$1.85	\$1.65
2.2	8 x 17	RY-6902	\$2.10	\$1.85	\$1.65
3.3	8 x 19	RY-6903	\$2.20	\$1.95	\$1.75
4.7	8 x 19	RY-6904	\$2.20	\$1.95	\$1.75
6.8	10 x 19	RY-6906	\$2.50	\$2.21	\$2.05
10	10 x 19	RY-6908	\$2.50	\$2.21	\$2.05
15	10 x 19	RY-6910	\$2.65	\$2.35	\$2.07
22	10 x 24	RY-6912	\$3.10	\$2.75	\$2.45
33	13 x 27	RY-6914	\$3.65	\$3.25	\$2.90
47	13 x 32	RY-6916	\$4.85	\$4.30	\$3.85
68	16 x 34	RY-6918	\$5.50	\$4.90	\$4.30
100	16 x 34	RY-6920	\$7.45	\$6.65	\$5.90
150	18 x 38	RY-6924	\$11.95	\$10.70	\$9.50
220	18 x 44	RY-6928	\$13.95	\$12.35	\$10.95
300	22 x 44	RY-6932	\$18.95	\$16.95	\$14.95
400	22 x 44	RY-6936	\$21.95	\$19.70	\$17.35

2.5V Super Capacitors - 22 & 55 Farad

These specially engineered capacitors are actually a high-tech energy storage device - not the standard capacitors which they look identical to. Using a new combination manufacturing process where nano surface structured carbon is combined with organic electrolytes, this technique enables these capacitors to store 1,000 times the energy of a standard electrolytic capacitor. The main applications are energy storage at a circuit board level replacing the bulkier secondary batteries which are currently used. Essentially anywhere high energy storage is needed.

- 7.5mm lead spacing
- High density of energy
- Long lifetime (10 years)
- High cycle life (over 500,000 cycles)



Value F	\varnothing x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
22	16 x 25	RE-6702	\$13.95	\$9.75	\$8.25
55	18 x 40	RE-6704	\$17.95	\$12.35	\$10.75

5.5V Super Capacitor - 0.047 Farad & 1 Farad

Super capacitors are a standby power source capable of providing up to 30 days back-up voltage & current to CMOS RAMs during power failures. Never needs replacing or maintenance

- Can be soldered onto PCBs
- Can be charged at high & low current rates i.e. microamps to amps
- 5mm lead spacing



Value F	\varnothing x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.047	13 x 7.5	RU-6700	\$3.95	\$2.75	\$2.30
1.0	20 x 7.5	RU-6705	\$5.95	\$4.15	\$3.45

Motor Start Capacitors

We have sourced a range of motor start capacitors necessary for starting single phase induction motors. These are suitable for motors operating at up to 400VAC and common values are offered here.

Please note it is important to choose the correct value for the motor otherwise the starting torque of the motor will change.

Two different packages are provided. For the higher valued capacitors it's necessary to use the different case style which provides the important AMP250A terminals and an inbuilt safety device.



Capacitance (μ F)	W x D x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
6.0	49 x 21 x 31	RU-6600	\$16.95	\$11.70	\$9.95
10	50 x 25 x 36	RU-6602	\$16.95	\$11.70	\$9.95
12	50 x 30 x 40	RU-6604	\$16.95	\$11.70	\$9.95
20	45 x 75	RU-6606	\$16.95	\$11.70	\$9.95
30	50 x 75	RU-6608	\$16.95	\$11.70	\$9.95

CAPACITORS (CONTINUED)

High Voltage RB Electrolytic

- 85°C rated

450V

* RE-6156 is 400V rated.

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
1	3.5	10 x 14.5	12	RE-6034	\$1.75	\$1.20	\$1.05
2μ2	5.0	10 x 17	28	RE-6044	\$1.75	\$1.20	\$1.05
4μ7	5.0	10 x 20.5	48	RE-6062	\$2.50	\$1.75	\$1.50
10	5.0	13 x 21.5	75	RE-6078	\$3.50	\$2.45	\$2.05
47	8.0	17.5 x 36	285	RE-6125	\$7.50	\$5.25	\$4.45
100	13	18 x 42.5	521	RE-6156*	\$7.95	\$5.50	\$4.75

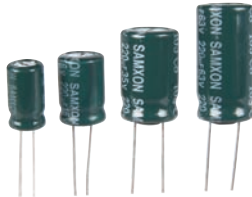
Low Impedance* or ESR¹ Capacitors

Stable, low impedance characteristics
High ripple current**
Low DC leakage current
Extended life - high reliability withstanding
2,000 to 4,000 hours load life at 105°C
Radial leads on standard pitch

*Impedance: max at 20°C 100kHz

**Ripple current measured at 105°C 100kHz.

¹Equivalent Series Resistance



10VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
220	6.3 x 12	0.22	340	RE-6300	\$0.42	\$0.29	\$0.25
470	8 x 11	0.13	640	RE-6302	\$0.50	\$0.35	\$0.30
1000	10 x 16	0.06	1210	RE-6304	\$0.85	\$0.60	\$0.51
2200	10 x 16	0.05	1900	RE-6306	\$1.25	\$0.85	\$0.75
4700	13 x 24	0.028	2552	RE-6308	\$2.25	\$1.55	\$1.35

16VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100	6.3 x 11	0.22	340	RE-6310	\$0.42	\$0.29	\$0.25
220	8 x 11	0.13	640	RE-6312	\$0.46	\$0.32	\$0.28
470	8 x 16	0.087	840	RE-6314	\$0.85	\$0.60	\$0.51
1000	10 x 20	0.046	1400	RE-6316	\$1.25	\$0.85	\$0.75
2200	16 x 25	0.035	2210	RE-6318	\$1.65	\$1.15	\$0.95
4700	16 x 32	0.022	3029	RE-6320	\$2.95	\$2.00	\$1.75

25VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100	8 x 11	0.22	340	RE-6322	\$0.50	\$0.35	\$0.30
220	8 x 12	0.13	640	RE-6324	\$0.50	\$0.35	\$0.30
470	10 x 16	0.060	1210	RE-6326	\$0.95	\$0.65	\$0.55
1000	13 x 20	0.035	1900	RE-6328	\$1.50	\$1.05	\$0.90
2200	16 x 25	0.022	2743	RE-6330	\$1.85	\$1.25	\$1.10

35VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
47	6.3 x 11	0.22	340	RE-6332	\$0.42	\$0.29	\$0.25
100	8 x 11	0.13	640	RE-6334	\$0.50	\$0.35	\$0.30
220	10 x 16	0.09	840	RE-6336	\$0.80	\$0.56	\$0.48
470	10 x 20	0.046	1400	RE-6338	\$1.40	\$0.95	\$0.80
1000	16 x 25	0.035	2552	RE-6340	\$1.95	\$1.35	\$1.15

63VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
22	6.3 x 11	0.70	180	RE-6342	\$0.42	\$0.29	\$0.25
47	8 x 11.5	0.30	295	RE-6344	\$0.50	\$0.35	\$0.30
100	10 x 20	0.12	760	RE-6346	\$0.95	\$0.65	\$0.55
220	10 x 20	0.060	1220	RE-6348	\$1.25	\$0.85	\$0.75
470	16 x 20	0.043	1690	RE-6350	\$1.75	\$1.20	\$1.05

TECH TALK!

LOW ESR CAPACITORS

ESR means Equivalent Series Resistance. Ordinary electrolytics are constructed in such a way that they can be quite "leaky", i.e. will conduct a small amount of DC current. They also have a fairly high impedance. This is not a problem if they are just used to filter 50 or 100Hz pulsating DC in a linear power supply. It is a problem if there is a high repetition pulse on, say, a switchmode DC supply line that needs to be filtered. A pulse train of, say, 50kHz will be virtually "ignored" by a standard electrolytic. A low ESR device has the ability to integrate the pulses into a smooth DC rail, and as a bonus not heat up in the process.

RBLL Low Leakage Electrolytic

- 85°C rated
- Leakage characteristic similar to tantalum caps, but at a lower price

25V

Value (μF)	Lead (mm) Spacing	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
22	2.5	6.3 x 11	RL-6430	\$0.65	\$0.46	\$0.39
33	2.5	6.3 x 11	RL-6432	\$0.65	\$0.46	\$0.39
47	3.5	8 x 12	RL-6434	\$0.95	\$0.65	\$0.55
100	3.5	8 x 12	RL-6436	\$1.10	\$0.75	\$0.65

50V

Value (μF)	Lead (mm) Spacing	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
0μ1	2.0	5 x 11	RL-6402	\$0.48	\$0.34	\$0.29
0μ22	2.0	5 x 11	RL-6406	\$0.48	\$0.34	\$0.29
0μ33	2.0	5 x 11	RL-6408	\$0.48	\$0.34	\$0.29
0μ47	2.0	5 x 11	RL-6410	\$0.48	\$0.34	\$0.29
0μ68	2.0	5 x 11	RL-6412	\$0.48	\$0.34	\$0.29
1μ0	2.0	5 x 11	RL-6414	\$0.48	\$0.34	\$0.29
1μ5	2.0	5 x 11	RL-6418	\$0.48	\$0.34	\$0.29
2μ2	2.0	5 x 11	RL-6420	\$0.48	\$0.34	\$0.29
3μ3	2.0	5 x 11	RL-6422	\$0.48	\$0.34	\$0.29
4μ7	2.0	5 x 11	RL-6424	\$0.48	\$0.34	\$0.29
10	2.5	6.3 x 11	RL-6428	\$0.67	\$0.47	\$0.40

RP Electrolytic

This style of capacitor is distinguished because, whilst bulky, does not need a chassis clamp. Fixing is by the stout lead wires. While soldered retention is generally adequate. For applications where vibration is an issue a dab of silicone under the component is recommended.

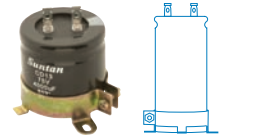
- 85°C rated

40V

Value (μF)	Ripple Current(A)	Size (mm)	Rated	Cat.	Qty 1+	Qty 25+	Qty 100+
5600	2.4	26 x 42	85°C	RU-6709	\$8.95	\$6.25	\$5.25
10000	2.7	26 x 51	85°C	RU-6720	\$11.95	\$8.25	\$6.95

RG Chassis Mount Electrolytic

- 85°C rated



Value (μF)	Voltage (V)	Ripple Current(A)	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
4000	75	4.6	35 x 51	RU-6708	\$11.95	\$8.25	\$6.95
8000	80	3.47	35 x 76	RU-6710	\$14.95	\$10.35	\$8.75
10000	100	8.1	50 x 80	RU-6712	\$28.95	\$19.95	\$14.95

All supplied with mounting bracket. Height and diameter column excludes lugs - 8mm.

TECH TALK!

CAPACITOR TYPES

These offer low cost and high capacitance in a small physical size. Normally there are two types, the 'High Stability Temperature Compensating' type and the 'Bypass and Coupling' type. The former for use in resonant circuit and filter applications, with a value largely independent of voltage and frequency. The latter is for use in less critical applications, as they are less stable and have non-linear temperature characteristics and are somewhat voltage dependent.

POLYESTER:

These type offer good stability, a large range of values at low cost, and are the most widely used capacitor for general purpose.

POLYCARBONATE:

These have a low temperature coefficient, low dielectric loss at high frequency and excellent temperature stability characteristics.

POLYSTYRENE:

These offer tight tolerance and are highly stable; making them suitable for very stable tuned circuits and oscillators.

POLYPROPYLENE:

This type has a very low dielectric loss and are particularly suitable in audio circuits and sample-and-hold circuits.

MYLAR:

This is the Du Pont tradename for polyester. They usually have an aluminium film deposit on the dielectric and are called "metallised polyester".

CAPACITOR QUICK REFERENCE CHART

Use	Cap.	Cat.	Page
RF	Ceramic	RC-5XXX	151
AUDIO	MKT	RM-7XXX	150
SMPS	Low ESR	RE-63XX	153
PSU	Electrolytic	RE-60XX	152
CROSSOVER	Poly/Electrolytic	RY-69XX	152
MOTOR	Motor Start	RU-66XX	152

RESISTORS

0.5W 1% METAL FILM MINI SIZE

Same size as standard 1/4W Carbon Film.



Pkt 8 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.55	\$0.39	\$0.33

0.25W CARBON FILM

5% , available from 1 Ω to 8.2 Ω & 1.2M Ω to 10M Ω .
Use Mini Metal Film for other values.



Pkt 8 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

1W CARBON FILM 5%



Pkt 2 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

5W WIREWOUND



Each (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

10W WIREWOUND



Each (one value)	Qty 1+	Qty 25+	Qty 100+
	\$1.80	\$1.25	\$1.05

Welwyn Open Air Resistor OAR3-R010FI 0R010 3W 1%



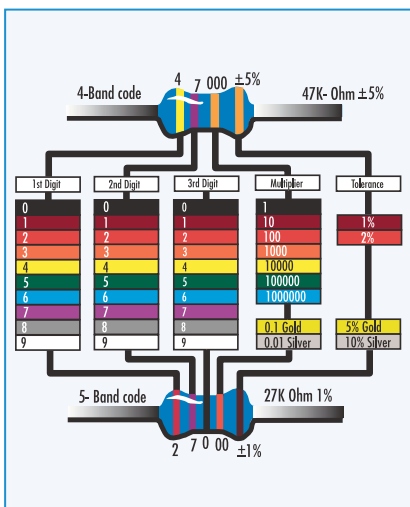
This is used as a PCB mount current shunt/sense (resistor) up to about 20A. It is a very stable (extremely low temp drift), high tolerance (1%), low inductance (<10nH) shunt resistor that can be used in many high current sense applications: motor current sense, regulated power supplies, power amplifier current sense, battery current sense. See website for datasheet.

• Sold individually

Specifications	RR-3420
Power	3W
Resistance	0.01ohm
Tolerance	+/- 1%
Dimensions	15.2(L) x 25.4(H)mm



Cat.	Qty 1+	Qty 25+	Qty 100+
RR-3420	\$2.25	\$1.55	\$1.35



1% Metal A (1/2W)	5% Carbon B (1/4W)	5% Carbon C (1W)	5% Wirewound D (5W)	5% Wirewound E (10W)	1% Metal A (1/2W)	5% Carbon B (1/4W)	5% Carbon C (1W)
0R0	RR-1500				5K1	RR-0589	
0R1			RR-3206		5K6	RR-0590	RR-2792
0R22			RR-3208		6K2	RR-0591	
0R47			RR-3214		6K8	RR-0592	RR-2794
0R75					7K5	RR-0593	
0R82					8K2	RR-0594	RR-2796
1R0	RR-1502	RR-2502	RR-3220	RR-3340	9K1	RR-0595	
1R2	RR-1504	RR-2504			10K	RR-0596	RR-2798
1R5	RR-1506	RR-2506	RR-3230		11K	RR-0597	
1R8	RR-1508	RR-2508	RR-3232		12K	RR-0598	RR-2800
2R2	RR-1510	RR-2510	RR-3234	RR-3344	13K	RR-0599	
2R7	RR-1512	RR-2512	RR-3236		15K	RR-0600	RR-2802
3R3	RR-1514	RR-2514	RR-3238	RR-3346	16K	RR-0601	
3R9	RR-1516	RR-2516	RR-3240	RR-3347	18K	RR-0602	RR-2804
4R7	RR-1518	RR-2518	RR-3242	RR-3348	20K	RR-0603	
5R6	RR-1520	RR-2520	RR-3244	RR-3349	22K	RR-0604	RR-2806
6R8	RR-1522	RR-2522	RR-3246	RR-3350	24K	RR-0605	
8R2	RR-1524	RR-2524	RR-3248	RR-3351	27K	RR-0606	RR-2808
10R	RR-0524	RR-2526	RR-3250	RR-3352	30K	RR-0607	
11R	RR-0525				33K	RR-0608	RR-2810
12R	RR-0526	RR-2528	RR-3252	RR-3353	36K	RR-0609	
13R	RR-0527				39K	RR-0610	RR-2812
15R	RR-0528	RR-2530	RR-3254	RR-3354	43K	RR-0611	
16R	RR-0529				47K	RR-0612	RR-2814
18R	RR-0530	RR-2532	RR-3256	RR-3355	51K	RR-0613	
20R	RR-0531				56K	RR-0614	RR-2816
22R	RR-0532	RR-2534	RR-3258	RR-3356	62K	RR-0615	
24R	RR-0533				68K	RR-0616	RR-2818
27R	RR-0534	RR-2536	RR-3260	RR-3357	75K	RR-0617	
30R	RR-0535				82K	RR-0618	RR-2820
33R	RR-0536	RR-2538	RR-3262		91K	RR-0619	
36R	RR-0537				100K	RR-0620	RR-2822
39R	RR-0538	RR-2540	RR-3264		110K	RR-0621	
43R	RR-0539				120K	RR-0622	RR-2824
47R	RR-0540	RR-2542	RR-3266	RR-3360	130K	RR-0623	
51R	RR-0541				150K	RR-0624	RR-2826
56R	RR-0542	RR-2544	RR-3268		160K	RR-0625	
62R	RR-0543				180K	RR-0626	RR-2828
68R	RR-0544	RR-2546	RR-3270	RR-3362	200K	RR-0627	
75R	RR-0545				220K	RR-0628	RR-2830
82R	RR-0546	RR-2548	RR-3272		240K	RR-0629	
91R	RR-0547				270K	RR-0630	RR-2832
100R	RR-0548	RR-2550	RR-3274	RR-3364	300K	RR-0631	
110R	RR-0549				330K	RR-0632	RR-2834
120R	RR-0550	RR-2552	RR-3276		360K	RR-0633	
130R	RR-0551				390K	RR-0634	RR-2836
150R	RR-0552	RR-2554	RR-3278		430K	RR-0635	
160R	RR-0553				470K	RR-0636	RR-2838
180R	RR-0554	RR-2556	RR-3280		510K	RR-0637	
200R	RR-0555				560K	RR-0638	RR-2840
220R	RR-0556	RR-2558	RR-3282		620K	RR-0639	
240R	RR-0557				680K	RR-0640	RR-2842
270R	RR-0558	RR-2760	RR-3284	RR-3369	750K	RR-0641	
300R	RR-0559				820K	RR-0642	RR-2844
330R	RR-0560	RR-2762	RR-3286		910K	RR-0643	
360R	RR-0561				1M0	RR-0644	RR-2846
390R	RR-0562	RR-2764	RR-3288		1M2		RR-2848
430R	RR-0563				1M5	RR-1652	RR-2850
470R	RR-0564	RR-2766	RR-3290	RR-3372	1M8	RR-1654	
510R	RR-0565				2M2	RR-1656	RR-2854
560R	RR-0566	RR-2768	RR-3292		2M7	RR-1658	
620R	RR-0567				3M3	RR-1660	RR-2858
680R	RR-0568	RR-2770	RR-3294		3M9	RR-1662	RR-2860
750R	RR-0569				4M7	RR-1664	RR-2862
820R	RR-0570	RR-2772	RR-3296	RR-3375	5M6	RR-1666	RR-2864
910R	RR-0571				6M8	RR-1668	
1K0	RR-0572	RR-2774	RR-3298		8M2	RR-1670	RR-2868
1K1	RR-0573				10M	RR-0660	RR-2870
1K2	RR-0574	RR-2776					
1K3	RR-0575						
1K5	RR-0576	RR-2778	RR-3302				
1K6	RR-0577						
1K8	RR-0578	RR-2780					
2K0	RR-0579						
2K2	RR-0580	RR-2782	RR-3306				
2K4	RR-0581						
2K7	RR-0582	RR-2784					
3K0	RR-0583						
3K3	RR-0584	RR-2786	RR-3310				
3K6	RR-0585						
3K9	RR-0586	RR-2788					
4K3	RR-0587						
4K7	RR-0588	RR-2790	RR-3312				

BUY A LOT OF RESISTORS?

Check out our economical pack deals on the next page.

Selecting a resistor to power a LED? See page 133 for our selection guide.

PROTOTYPE RESISTOR PACKS

0.25 Watt Carbon Film Resistors

300 Pieces



This pack includes five of virtually each value from 1 Ω to 10 Meg. Sixty different values. All resistors are banded for easy sorting. Values supplied are 1 Ω , 1.5, 2.2, 3.3, 4.7, 5.6, 10, 12, 15, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 180, 220, 270, 330, 470, 560, 680, 820, 1k, 1k2, 1k5, 1k8, 2k2, 3k3, 3k9, 4k7, 5k6, 8k2, 10k, 12k, 15k, 18k, 22k, 27k, 33k, 39k, 47k, 56k, 68k, 82k, 100k, 120k, 150k, 220k, 270k, 330k, 470k, 1M, 2M7, 4M7 & 10M.

NERD PERKS
2x POINTS

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RR-1680	\$8.95	\$6.25	\$5.25

Ultimate Resistor Pack



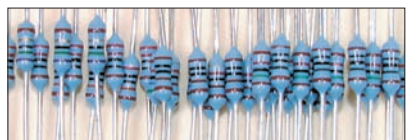
Top quality, guaranteed 1/4 watt 5% miniature sized carbon film. In fact, they look like 1/8W, they are so small. This pack gives you almost every resistor in the E24 range (eg. 1.8K, 2.0K, 2.2K). You get 10 of every value, a total of 170 values, 1700 resistors in all and they are banded for easy sorting.

NERD PERKS
2x POINTS

Buy this pack and you should NEVER be short of any resistor again. Massive savings over normal costs.

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RR-2000	\$32.95	\$24.95	\$19.95

0.5W 1% Mini Size Metal Film Pack



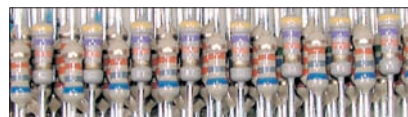
This pack includes five of each value from 10 Ω to 1 Meg. Have that 1% resistor when you need it.

Five of each of the following values supplied. 10 Ω , 12, 15, 22, 27, 33, 39, 47, 56, 68, 75, 82, 100, 120, 180, 220, 270, 330, 390, 470, 560, 680, 820, 910, 1k, 1k2, 1k8, 2k2, 3k3, 3k9, 4k7, 5k6, 6k8, 8k2, 10k, 12k, 15k, 18k, 22k, 27k, 33k, 39k, 47k, 56k, 68k, 82k, 91k, 100k, 120k, 150k, 180k, 200k, 220k, 270k, 330k, 390k, 470k, 560k, 750k & 1M. Total 60 values - 300 resistors.

You know exactly what you are getting when you buy our resistor packs.

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RR-0680	\$16.95	\$11.70	\$9.95

The Easy Way to Buy 0.25 Watt Carbon Film Resistors



This pack includes 10 of every value of 1/4W 5% carbon film resistors from 1 Ω to 10M Ω . This is the E12 range, which goes like this - 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100. Total values supplied is 85, giving a total of 850 resistors. Resistors are banded for easy sorting. A great way to never be out of that odd resistor and save a packet at the same time.

NERD PERKS
2x POINTS

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RR-1697	\$16.95	\$11.70	\$9.95

Resistor Substitution Wheel

36 VALUES

Convenient resistance selection. Select from 36 values ranging from 5 ohms to 1 megohms.

- Great for creating new circuits for selecting the best resistances for the task
- Assists with some of the calculations associated with resistance usage
- Comes complete with leads and insulated alligator clips
- Uses 0.25W resistors with 5% tolerance

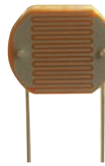


↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RR-0700	\$39.95	\$27.95	\$23.95

Light Dependent Resistor (LDR)

Cadmium sulphide (CdS) light dependent resistor cell.

Specifications	RD-3485
Dark resistance	0.5M Ω min.
Light resistance	2.8k Ω min
	8.4k Ω max.
Max dissipation	100mW
Rise time	(0-63%) 50ms
Decay time	(100 - 37%) 40ms
Dimensions	8.5mm x 10.14mm
Lead spacing	7.68mm.



↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RD-3485	\$3.25	\$2.25	\$1.90

Light Dependent Resistor (LDR)

Cadmium Sulphide (CdS) light dependent resistor cell. Similar to Philips ORP12

Specifications	RD-3480
Dark resistance	min10M Ω
Light resistance	48k - 140k Ω
Max dissipation	30mW
Rise time	(0-63%) 40ms
Decay time	(100-37%) 10ms
Dimensions	5.1mm x 4.3mm \pm 0.2
Lead spacing	3.4mm



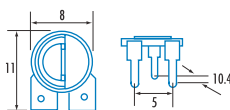
↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RD-3480	\$3.25	\$2.25	\$1.90

TRIMPOTS

Horizontal Mini Trimpots

OPEN CARBON TYPE

Value	Cat.
500 Ω	RT-4304
1k Ω	RT-4306
2k Ω	RT-4308
5k Ω	RT-4310
10k Ω	RT-4312
20k Ω	RT-4314
50k Ω	RT-4316
100k Ω	RT-4318
200k Ω	RT-4320
500k Ω	RT-4324

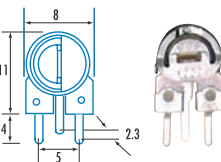


↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	All Types / Each	\$0.50	\$0.35	\$0.30

Vertical Trimpots 5mm

OPEN CARBON TYPE

Value	Cat.
200 Ω	RT-4006
500 Ω	RT-4008
1k Ω	RT-4010
5k Ω	RT-4014
10k Ω	RT-4016
20k Ω	RT-4018
50k Ω	RT-4020
100k Ω	RT-4022
250k Ω	RT-4024
500k Ω	RT-4026
1M Ω	RT-4028
2M Ω	RT-4029

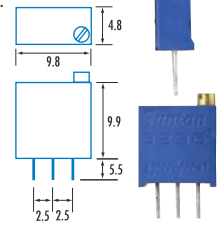


↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	All Types / Each	\$0.50	\$0.35	\$0.30

25 Turn Cermet (3296W)

These are 25 turn industrial quality sealed trimpots. Pins are in a row, with 2.5mm spacing. Adjustment is vertical. Power rating is 0.5 watts.

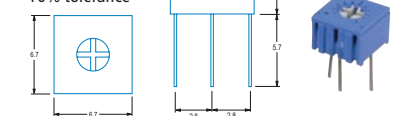
Value	Cat.
100 Ω	RT-4640
500 Ω	RT-4642
1k Ω	RT-4644
2k Ω	RT-4646
5k Ω	RT-4648
10k Ω	RT-4650
20k Ω	RT-4652
50k Ω	RT-4654
100k Ω	RT-4656
1M Ω	RT-4658



↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	All Types / Each	\$2.95	\$2.00	\$1.75

Trimpot Cermet 1 Turn 10k Ω (3386P)

- Single turn
- 10k Ω
- 10% tolerance

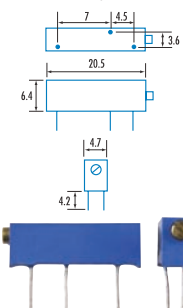


↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	RT-4600	\$1.95	\$1.35	\$1.15

Multiturn Cermet (3006P)

0.75 watts @ 70%. Horizontal side adjustment. 15-20 turns.

Value	Cat.
100 Ω	RT-4602
500 Ω	RT-4604
1k Ω	RT-4608
2k Ω	RT-4610
5k Ω	RT-4612
10k Ω	RT-4614
20k Ω	RT-4616
50k Ω	RT-4618
100k Ω	RT-4620
1M Ω	RT-4622



Major brands stocked

↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	All Types / Each	\$1.95	\$1.35	\$1.15

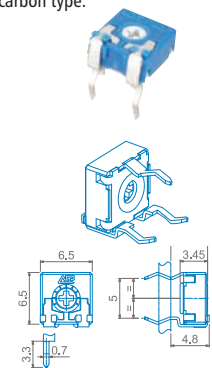
For Trimmer Capacitors
see page 150.

Piher Style Horizontal 5mm

At last, a range of top quality sealed mini, standard sized trimpots.

- Dust proof enclosure
- Polyester substrate
- Wiper positioned at 50%
- Accidental rotor movement protected.
- Max voltage 100V / Nom power 0.1W
- Linear curve
- Tolerance +/- 30%
- End resistance 10 Ω carbon type.

Value	Cat.
200 Ω	RT-4350
500 Ω	RT-4352
1k Ω	RT-4354
2k Ω	RT-4356
5k Ω	RT-4358
10k Ω	RT-4360
20k Ω	RT-4362
50k Ω	RT-4364
100k Ω	RT-4366
250k Ω	RT-4368
500k Ω	RT-4370
1M Ω	RT-4372

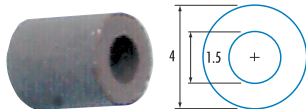


↑	Cat.	Qty 1+	Qty 25+	Qty 100+
	All Types / Each	\$1.35	\$0.90	\$0.80

FERRITES

Ferrite Bead

These small tubes can be threaded on to a wire to provide RF or interference suppression at frequencies higher than the normal operating range of the equipment to be protected.

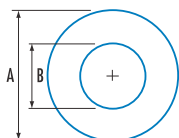


Length (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
5.0	6	LF-1250	\$3.95	\$2.75	\$2.30

Ferrite Suppression Sleeves

Similar to suppression beads (see above) but longer for greater attenuation.

Cat.	Typical Impedance (Z) _{@25MHz}	(Z) _{@100MHz}
LF-1256	52	66
LF-1258	130	200
LF-1260	161	255

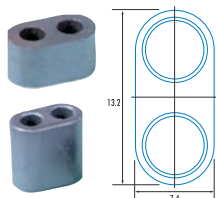


Length (mm)	A (mm)	B (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
16	8.0	5.6	6	LF-1256	\$4.95	\$3.45	\$2.90
20	12	5.6	6	LF-1258	\$6.50	\$4.45	\$3.75
29	16	8.0	6	LF-1260	\$7.50	\$5.25	\$4.45

Standard Transformer (Balun) Cores

Generally used in VHF/UHF circuits for balanced or unbalanced line matching. Can also be used as a lossy choke, etc.

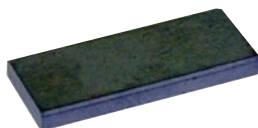
- Material: Type M7
- Insertion Loss: 40-220MHz 0.5dB > 220MHz 1.0dB



Length (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
6.0	2	LF-1222	\$2.50	\$1.75	\$1.50
14	2	LF-1220	\$2.50	\$1.75	\$1.50

Ferrite Flat Bar

- Short and compact.
- Ideal for MW tuned circuits
- Frequency: 0.5 - 10MHz
- Also suitable for suppression work



L x W x D (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
40 x 12 x 5	LF-1016	\$2.50	\$1.75	\$1.50

Ferrite Rounds

- 9mm diameter. • Material S-1
- Ideal for MW tuned circuits or suppression work



Ø x W (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
9 x 100	LF-1010	\$2.50	\$1.75	\$1.50
9 x 180	LF-1012	\$5.25	\$3.60	\$3.15

Ferrite Rod With Coil

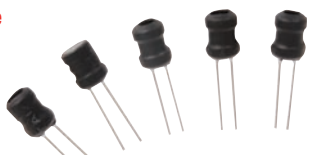
Small ferrite rod complete with pre-wound standard broadcast band coil. Ideally suitable to our 60-160pf mini tuning capacitor



L x W x D (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
55 x 12.5 x 4.5	LF-1020	\$3.50	\$2.45	\$2.05

High Frequency Ferrite Choke

PCB mounting ferrite chokes suitable for frequency circuits.



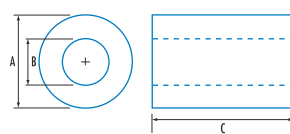
Inductance	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
47µH	5.0	LF-1100	\$0.85	\$0.60	\$0.51
100µH	5.0	LF-1102	\$0.85	\$0.60	\$0.51
220µH	5.0	LF-1104	\$0.85	\$0.60	\$0.51
330µH	5.0	LF-1106	\$0.85	\$0.60	\$0.51
470µH	5.0	LF-1108	\$0.85	\$0.60	\$0.51

Toroid (or Ring) Cores

Toroid (both ferrite and powdered iron) are commonly used as cores for transformers or chokes mainly for RF suppression but also for any application where a compact reactive component is needed.

Drawing for both ferrite and powdered iron types
See website for more info.

FERRITE MATERIAL



MATERIAL L8 SIZE 18(A) X 10(B) X 6(C) (mm)

Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
6	LO-1230	\$3.50	\$2.45	\$2.05

MATERIAL L8 SIZE 25(A) X 15(B) X 10(C) (mm)

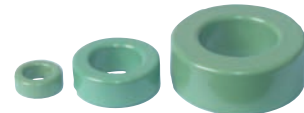
Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
4	LO-1234	\$4.95	\$3.45	\$2.90

MATERIAL L15 SIZE 35(A) X 21(B) X 13(C) (mm)

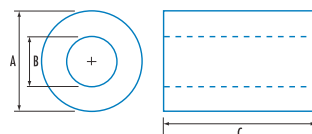
Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
2	LO-1238	\$4.95	\$3.45	\$2.90

Powdered Iron Cores

These toroids are made out of compressed powdered iron and coated with a tough epoxy material. They are ideal for RF suppression of light dimmers, motor speed controllers, switch mode power supplies etc.



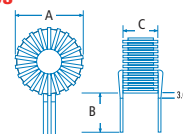
- Colour: Green epoxy coating.
- Contact us for bulk quantity prices
- Material HY-2



A x B x C (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
15 x 8 x 6.5	4	LO-1242	\$6.50	\$4.45	\$3.75
28 x 14 x 11	2	LO-1244	\$5.50	\$3.75	\$3.25
42 x 22 x 17	1	LO-1246	\$8.95	\$6.25	\$5.25

Through Hole EMC/RFI Suppression Chokes

Ideal for all wideband choke applications. Highly effective against EMI/RFI entering equipment via the mains power lines. Powdered iron core.



Specifications	LF-1270	LF-1272	LF-1274	LF-1276	LF-1278
RDC mΩ	50	25	25	60	82
Wire Dia mm	1.0	0.8	1.0	1.0	1.0
Dimension A mm	26	21	24.5	28.5	31
Dimension B mm	25	10	10	10	10
Dimension C mm	13	10.5	10	13	17

Inductance (µH)	Current (A)	Cat	Qty 1+	Qty 25+	Qty 100+
100	3A	LF-1272	\$3.95	\$2.75	\$2.30
100	5A	LF-1270	\$3.95	\$2.75	\$2.30
47	5A	LF-1274	\$3.95	\$2.75	\$2.30
220	5A	LF-1276	\$5.95	\$4.15	\$3.45
470	5A	LF-1278	\$6.95	\$4.75	\$4.15

SMD Type EMC/RFI Suppression Chokes

These popular devices complement our wire-terminated LF-1270 style ferrite chokes. Good suppression of RF-EMI from DC/DC converters or any circuit which generates commutation noise etc. which needs to be suppressed to meet regulations. Supplied in bags of 10 cut from a tape reel.



SMD

LF-1402



LF-1400

Specifications	LF-1400	LF-1402
Inductance	100µH +/-10%	100µH +/-20%
Series DC resistance (RDC)	0.99Ω	179.6mΩ max
Rated DC current	520mA	1.8A
Size	5.8 x 4.5mm	12 x 12 x 8mm

Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
10	LF-1400	\$7.95	\$5.50	\$4.75
10	LF-1402	\$12.95	\$8.95	\$7.75

FERRITES (CONTINUED)

Flat Cable Suppression Sleeves

These devices are designed to suppress high frequency (fast rise time) interference (radiation) to and from PC boards, printers, disk drives etc. The ferrite makes the cable behave like a high impedance choke at high frequencies.



FOR 16 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat	Qty 1+	Qty 25+	Qty 100+
Pkt 2	54Ω	120Ω	LF-1280	\$5.95	\$4.15	\$3.45

FOR 26 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat	Qty 1+	Qty 25+	Qty 100+
Each	38Ω	91Ω	LF-1284	\$6.95	\$4.75	\$4.15

FOR 50 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat	Qty 1+	Qty 25+	Qty 100+
Each	72Ω	190Ω	LF-1286	\$12.95	\$8.95	\$7.75

TECH TALK!

WHAT, EXACTLY IS FERRITE?

Ferrite is a ceramic material with Iron Oxide - up to 50% - then with oxides of manganese and zinc or nickel.

The ceramic material is mixed with these substances, pressed or extruded into useful shapes and finally fired in a furnace to their final hard, brittle state. From this there are two forms: Manganese - Zinc (Mn-Zn) ferrites which are the most common and are used for lower frequency work. They have higher permeability than the higher frequency type which have Nickel and Zinc Oxide components.

The products shown in this catalogue are Mn-Zn types.
For more information check our website.

Round Cable Suppression Sleeves



Basically a split high permeability ferrite core with a plastic case, these devices are ideal where parasitic voltage spikes or RF breakthrough are a problem or potential problem. The cores come in a hinged plastic case, simply snap on to the computer or data cable. Three versions are offered which cover most computer leads etc. For extra security, lock assembly together with a cable tie.

TYPICAL IMPEDANCE VS FREQUENCY

(Rise Time of Interference Signal) Note: All figures are approximate

Model	Cable Dia	1MHz	25MHz	50MHz	100MHz	300MHz	500MHz
U-25	12.5	10Ω	150Ω	200Ω	250Ω	290Ω	200Ω
U-16	8.3	20Ω	100Ω	200Ω	220Ω	150Ω	<100Ω
U-15	7.0	<10Ω	160Ω	220-250Ω	280Ω	300+Ω	245Ω

PLEASE NOTE:

- Full specifications available on website.
- If the cable can be looped through the core twice or more (obviously only for thinner cables) the attenuation is increased substantially.



MODEL U25:

This offers impedance (peak approx 300Ω at 2-300MHz) with negligible impedance below 1MHz. Plastic case measures 32L x 30mm square. It will take a lead up to 12mm (1/2") diameter but preferably 10mm.

Cat.	Qty 1+	Qty 25+	Qty 100+
LF-1290	\$9.95	\$6.75	\$5.75

MODEL U16:

A compact attenuator that will pass a cable up to 8mm dia (most monitor cables etc). Typical impedance at 25MHz 300Ω approx, 590Ω at 100MHz dropping off after that. Case measures 25.9(L) x 21.5(Dia)mm.

Cat.	Qty 1+	Qty 25+	Qty 100+
LF-1292	\$12.95	\$8.95	\$7.75

MODEL U15:

This model is for 7mm dia cable or smaller.

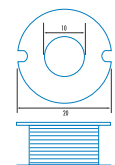
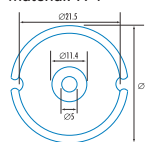
- Offers good protection up to 500MHz.

Cat.	Qty 1+	Qty 25+	Qty 100+
LF-1294	\$9.95	\$6.75	\$5.75

POT CORE & BOBBIN

This handy sized pot core set is made from low loss material and is equivalent to the original Philips FX 2240 part.

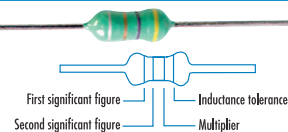
- Size (each half): 26(OD) x 11.5(ID) x 8(H)mm
- Material: FP4



	Cat.	Qty 1+	Qty 25+	Qty 100+
Pot Core - pair	LF-1060	\$6.95	\$4.75	\$4.15
Bobbin to suit	LF-1062	\$1.35	\$0.90	\$0.80

RF CHOKES

Specifications	All
Axial leads	Colour coded per IEC
Tolerance	±10%,
Rated temp. rise	-20°C to +80°C
Dielectric withstanding voltage	250Vrms



(μH) DC Inductance	(Ω) Rated Resistance	DC Current Max (mA)	Cat.	(μH) DC Inductance	(Ω) Rated Resistance	DC Current Max (mA)	Cat.
1μ0	0.09	920	LF-1510	47	1.22	340	LF-1530
1μ5	0.23	830	LF-1512	68	1.47	305	LF-1532
2μ2	0.28	750	LF-1514	100	1.80	275	LF-1534
3μ3	0.34	670	LF-1516	150	4.20	175	LF-1536
4μ7	0.39	620	LF-1518	220	5.10	155	LF-1538
6μ8	0.48	550	LF-1520	330	6.40	137	LF-1540
10	0.58	500	LF-1522	470	7.70	126	LF-1542
15	0.72	460	LF-1524	680	9.40	113	LF-1544
22	0.84	410	LF-1526	1000	14.00	100	LF-1546
33	1.03	370	LF-1528				

	Qty 1+	Qty 25+	Qty 100+
All the above	\$0.75	\$0.53	\$0.45

FERRITE RF COIL PACK

Mini Coil Pack

Set of 4 standard coils for AM section of a superheterodyne receiver with 455kHz. IF offset. Colour dot on top of ferrite slug indicates type.

- Red is the oscillator coil
- White is the first 455kHz IF
- White is the 2nd
- Black is the 3rd.
- See website for more information.

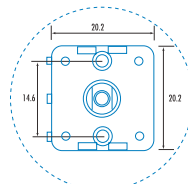
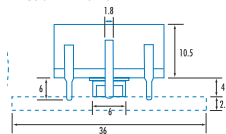


Cat.	Qty 1+	Qty 25+	Qty 100+
LF-1050	\$5.95	\$4.15	\$3.45

MINIATURE TUNING CAPACITOR

As used in most transistor radios and many kits that incorporate a radio.

- Size 20 x 20 x 10.5 high (mm).
- Supplied with 35(mm) dia. plastic knob & screw.
- Capacitance range 60 - 160pF
- Suitable Ferrite Aerial Coil Cat. LF-1020.

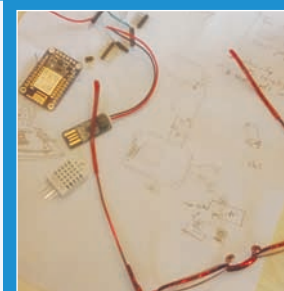


Size (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
20 x 20 x 10.5	RV-5728	\$4.75	\$3.30	\$2.75

Workbench sent to us by: Rodney Jaycar Store: Bondi Junction

Our apartment is tiny so I work a lot in cafes. My other workspace is usually the dining table.

For more details, visit:
www.jaycar.com.au/workbench



COMPONENTS INTERFERENCE & SURGE PROTECTION

EMI FILTERS

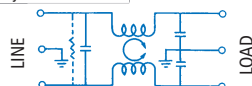
IEC EMI Power Line Filter - 6 Amp

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line connector and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz.

- Safety and construction are in compliance with UL, CSA, VDE.

Specifications:	MS-4003
Rated voltage	115/250VAC
Power line freq	50/60Hz
Rated current	6 amps
Maximum leakage current	@ 115 VAC 60Hz 0.25mA
Line to ground	@ 250VAC 50Hz 0.50mA
Test voltage	Line to ground: 2250VDC, one minute Line to line: 1450VDC, one minute
Typical insertion loss (dB) =	Line-to-ground in 50Ω system.

Current Rating	Freq (MHz)	0.5	1	5	10	30
6A	10	20	25	42	45	50



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4003	\$9.95	\$8.75	\$7.75

240V AC EMI Filter

Designed for mounting inside a chassis, these industry standard RF/EMI filters are pre-designed to reduce line-to-ground (common mode) interference. Rated for mains voltages of 125 or 240VAC 50 or 60Hz, they are very useful when mains cords are fixed to the outside chassis and an IEC320 inlet is not suitable.

POWERTECH



Specifications:	MS-4000/MS-4001
Rated voltage	250VAC, 50Hz
Rated current	10A
Leak current	0.8mA max
Insulation resis	100M ohm min
Attenuation	1 - 50MHz
Termination	PCB mounting pins (MS-4000) & solder tags (MS-4001)
Dimensions: MS-4000	36(L) x 31(W) x 19(H)mm
Dimensions: MS-4001	50(L) x 25(W) x 31(H)mm

	Cat.	Qty 1+	Qty 25+	Qty 100+
PCB Mount - 4 Way	MS-4000	\$7.95	\$6.95	\$6.25
Chassis Mount - 6 Way	MS-4001	\$9.95	\$6.75	\$5.75

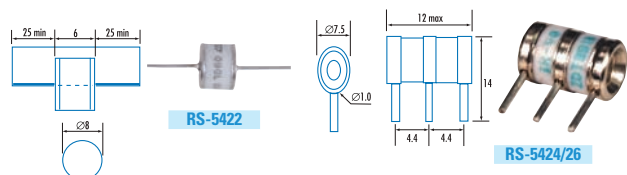


SURGE ARRESTORS

Gas Discharge Type Surge Arresters

Gas discharge arresters are ideal for quenching high voltage, fast rise-time interference transients. They are very high impedance (virtually open circuit) in the normal state with a typical capacitance of 1pF between electrodes. When a voltage spike appears, they arc over and present a relatively low impedance in this condition effectively quenching the spike. They are suitable for protection of telecom lines and antenna circuits. They are not recommended to be fitted across mains circuits as the low source impedance of the mains could destroy these devices after the fault spike has cleared.

- Well-proven and reliable device.
- Four models are offered.



DC Spark Over Voltage	Axial 2 Electrodes	PCB Mount 3 Electrodes
90V +/- 20%	Cat. RS-5422	Cat. RS-5424
230V +/- 15%	Cat. RS-5422	Cat. RS-5426

**MANUFACTURERS:
CONTACT US FOR
BULK PRICES.**

	Cat.	Qty 1+	Qty 10+	Qty 25+
230V 2 Electrodes	RS-5422	\$9.95	\$8.75	\$7.75
90V 3 Electrodes	RS-5424	\$9.95	\$8.75	\$7.75
230V 3 Electrodes	RS-5426	\$9.95	\$8.75	\$7.75

VOLTAGE PROTECTION

Metal Oxide Varistors (MOV)

Ideal protection against voltage spikes or transients. Most mains filters have MOVs. Helps to prevent damage to sensitive equipment such as microprocessors and digital electronics.

- Resin dipped case



Prices per each.

Operating Voltage(AC)	Dia	Clamping Voltage(V)	Peak Current(A)	Max Energy(J)	Cat.	Qty 1+	Qty 10+	Qty 25+
10	8	143	100	0.4	RN-3411	\$1.75	\$1.55	\$1.40
10	13.5	18	500	2.8	RN-3412	\$1.75	\$1.55	\$1.40
10	17.5	143	1000	6.6	RN-3413	\$1.75	\$1.55	\$1.40
275	13.5	710	2500	60	RN-3406	\$1.75	\$1.55	\$1.40
275	17.5	710	4500	115	RN-3400	\$1.75	\$1.55	\$1.40
275	24	710	6500	190	RN-3404	\$1.75	\$1.55	\$1.40
460	13.5	750	2500	125	RN-3415	\$1.75	\$1.55	\$1.40
460	17.5	750	4500	203	RN-3416	\$1.75	\$1.55	\$1.40
460	24	1240	6500	266	RN-3417	\$1.75	\$1.55	\$1.40

TRANSIENT VOLTAGE SUPPRESSORS (TVS)

- Excellent clamping voltage
- Low Zener impedance
- Fast response time
- Operating & storage temperature -55°C to 175°C



400W RANGE (DC) • Peak power: 400W • Steady state: 1W

Standoff Voltage(V)	Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
5.5	6.12	10.8	38	D0-41	ZR-1150	\$1.75	\$1.55	\$1.40
12.1	13.5	22.0	19	D0-41	ZR-1152	\$1.75	\$1.55	\$1.40
12.9	14.4	23.5	18	D0-41	ZR-1154	\$1.75	\$1.55	\$1.40

400W RANGE (AC) • Peak power: 400W • Steady state: 1W

Standoff Voltage(V)	Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
12.8	14.3	21.2	20	D0-41	ZR-1160	\$1.85	\$1.65	\$1.45
13.6	15.2	22.5	19	D0-41	ZR-1162	\$1.85	\$1.65	\$1.45
342	380	548	0.7	D0-41	ZR-1164	\$3.95	\$3.45	\$3.15

1500W RANGE (DC) • Peak power: 1500W • Steady state: 5W

Standoff Voltage(V)	Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
12.1	13.5	22	69.1	D0-201	ZR-1168	\$2.95	\$2.60	\$2.40
12.9	14.4	23.5	64.7	D0-201	ZR-1170	\$2.95	\$2.60	\$2.40

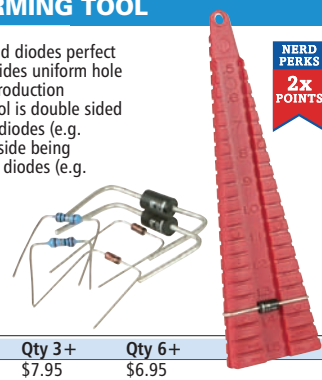
1500W RANGE (AC) • Peak power: 1500W • Steady state: 5W

Standoff Voltage(V)	Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
13.6	15.2	22.5	67.6	D0-201	ZR-1175	\$3.95	\$3.45	\$3.15
30.8	34.2	49.9	30.5	D0-201	ZR-1177	\$4.95	\$4.45	\$3.90
342	380	548	2.8	D0-201	ZR-1180	\$4.95	\$4.45	\$3.90

COMPONENT LEAD FORMING TOOL

Get the hole spacing for your resistors and diodes perfect every time. This handy forming tool provides uniform hole spacing from 10 to 38mm. Suitable for production assembly, education and training. The tool is double sided with one side for use with D047 outline diodes (e.g. 1N914) and 1W Zener diodes; the other side being suitable for 1/4W resistors, D041 outline diodes (e.g. 1N4004).

- An incredibly handy tool!
- Made in USA from engineering plastic.
- Dimensions: 138 (L)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1810	\$8.95	\$7.95	\$6.95

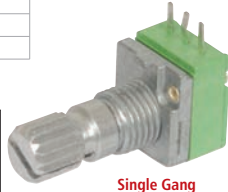
POTENTIOMETERS

9mm Square PCB Mounting

These pots are rapidly becoming the industry standard for miniaturised audio, digital and telecommunications equipment. This series features good solder bath immersion resistance, 300° rotation and standard 18 tooth metric pre-cut actuator shafts. Two popular metric knobs are now carried, however metric knobs are now commonly available. Both single and dual gang types are stocked in log and linear resistance tapers.

Electrical	Linear Taper (B)	Other Taper
Rated Wattage	0.05W	0.02W
Rated Voltage	50VAC	50VAC
Slider Noise	<100mV	
Insulation Resistance	>100MΩ at 250VDC	
Dielectric	300VAC/Minute	
Tracking Error	Within 3dB at 40~0dB	

Mechanical	
Rotation Angle	300° +/-5°
Rotation Torque	20~250gf.cm
Stop Strength:	5kgf.cm/min.



Single Gang

LOG SINGLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-8610	\$3.50	\$2.75	\$2.45
50kΩ	RP-8616	\$3.50	\$2.75	\$2.45

LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-8504	\$3.50	\$2.75	\$2.45
10kΩ	RP-8510	\$3.50	\$2.75	\$2.45
50kΩ	RP-8516	\$3.50	\$2.75	\$2.45
100kΩ	RP-8518	\$3.50	\$2.75	\$2.45
1MΩ	RP-8524	\$3.50	\$2.75	\$2.45

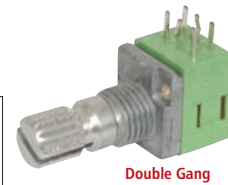
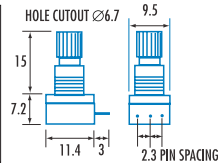
Suitable Knobs are HK-7770/72 shown on page 160

LOG DOUBLE GANG (A)

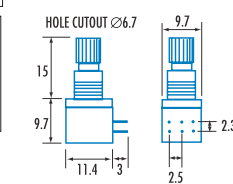
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-8756	\$4.95	\$3.90	\$3.45
50kΩ	RP-8760	\$4.95	\$3.90	\$3.45

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-8706	\$4.95	\$3.90	\$3.45
50kΩ	RP-8710	\$4.95	\$3.90	\$3.45
100kΩ	RP-8712	\$4.95	\$3.90	\$3.45



Double Gang



16mm PCB Mounting

These pots have imperial standard shaft.

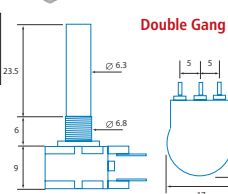
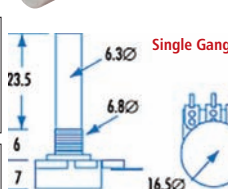
- Shaft is 1/4" D type (30% of shaft has been removed for flat), so they suit all our knob range.
- Shaft length is 30mm.
- Power rating Linear 0.125W and Log 0.06W.
- Max operating voltage: 150VAC
- Supplied with nut and washer

LOG SINGLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-7604	\$2.50	\$2.05	\$1.75
10kΩ	RP-7610	\$2.50	\$2.05	\$1.75
50kΩ	RP-7616	\$2.50	\$2.05	\$1.75

LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-7504	\$2.50	\$2.05	\$1.75
5kΩ	RP-7508	\$2.50	\$2.05	\$1.75
10kΩ	RP-7510	\$2.50	\$2.05	\$1.75
50kΩ	RP-7516	\$2.50	\$2.05	\$1.75
100kΩ	RP-7518	\$2.50	\$2.05	\$1.75
1MΩ	RP-7524	\$2.50	\$2.05	\$1.75



LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-7756	\$3.50	\$2.75	\$2.45

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
50kΩ	RP-7708	\$3.50	\$2.75	\$2.45
100kΩ	RP-7712	\$3.50	\$2.75	\$2.45

24mm PCB Mounting

With imperial standard shaft & bushings made to our rigid engineering specifications. The potentiometers are full size - 24mm diameter types. They have genuine 6.35mm (1/4") shafts with a flat machined 25% of the diameter for grub screws or interference fit knob mounting. The shaft is a generous 38mm long. The bush is a 3/8" 32 T.H.D. type which we believe is necessary for good fixing to a panel. Another important feature of the pots is their PCB mount capability. The pins are rigidly mounted on phenolic with the centre pin offset from the two outer terminals. When soldered into a PCB, the pot is quite rigidly held on its own. Double gang pots are held in 6 places and require no extra mechanical mounting assistance. The pins are large enough to terminate screened cable, etc., if the job requires hard wiring.

- We have stocked this product for over 10 years now and have no intention of changing it. You can therefore confidently design around this product.
- Supplied with nut and washer
- Power rating Log 0.25W and Linear 0.5W

LOG SINGLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-3604	\$2.95	\$2.40	\$2.00
5kΩ	RP-3608	\$2.95	\$2.40	\$2.00
10kΩ	RP-3610	\$2.95	\$2.40	\$2.00
25kΩ	RP-3614	\$2.95	\$2.40	\$2.00
50kΩ	RP-3616	\$2.95	\$2.40	\$2.00
100kΩ	RP-3618	\$2.95	\$2.40	\$2.00
250kΩ	RP-3620	\$2.95	\$2.40	\$2.00
500kΩ	RP-3622	\$2.95	\$2.40	\$2.00
1MΩ	RP-3624	\$2.95	\$2.40	\$2.00

LINEAR SINGLE GANG (B)

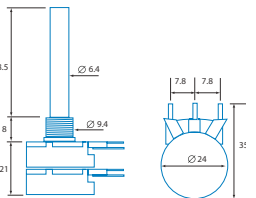
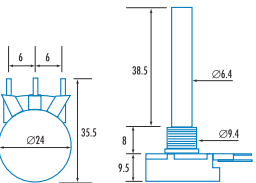
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
500Ω	RP-3502	\$2.95	\$2.40	\$2.00
1kΩ	RP-3504	\$2.95	\$2.40	\$2.00
5kΩ	RP-3508	\$2.95	\$2.40	\$2.00
10kΩ	RP-3510	\$2.95	\$2.40	\$2.00
25kΩ	RP-3514	\$2.95	\$2.40	\$2.00
50kΩ	RP-3516	\$2.95	\$2.40	\$2.00
100kΩ	RP-3518	\$2.95	\$2.40	\$2.00
250kΩ	RP-3520	\$2.95	\$2.40	\$2.00
500kΩ	RP-3522	\$2.95	\$2.40	\$2.00
1MΩ	RP-3524	\$2.95	\$2.40	\$2.00

LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-3756	\$4.50	\$3.60	\$3.15
50kΩ	RP-3760	\$4.50	\$3.60	\$3.15
100kΩ	RP-3762	\$4.50	\$3.60	\$3.15

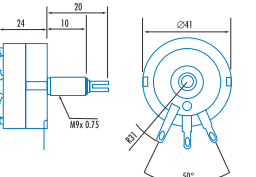
LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-3706	\$4.50	\$3.60	\$3.15
25kΩ	RP-3708	\$4.50	\$3.60	\$3.15
50kΩ	RP-3710	\$4.50	\$3.60	\$3.15
100kΩ	RP-3712	\$4.50	\$3.60	\$3.15



5 Ohm 15W Wirewound

Specifications	RP-3975
Resistance	5 Ohms
Resistance curve	Linear (B)
Rated wattage	15 Watts
Shaft	Spline (metric)
Body measures	41mm OD x 24mm Depth
Shaft Length	20mm; 9.0mm hole required
Lugs	Solder Type
Total rotation angle	300° +/-5°
Rotation Torque	70~400gf.cm
Stopper Strength	10kgf.cm



	Cat.	Qty 1+	Qty 10+	Qty 50+
	RP-3975	\$13.95	\$10.95	\$9.75

Potentiometer Nuts

Packet of 12 nuts and washers to suit our pots.



	Thread	Cat	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THTD	RP-3500	\$3.50	\$2.75	\$2.45
16mm	Metric	RP-7500	\$3.50	\$2.75	\$2.45

COMPONENTS EQUIPMENT KNOBS

PLASTIC KNOBS



FLUTED PLASTIC WITH POINTER SLOT & SKIRT
Grubscrew fixing - brass insert. Suit 0.25"/6.35mm shaft.

LIFETIME WARRANTY ON ALL KNOBS!

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Black	16 x 14	HK-7760	\$1.65	\$1.45	\$1.30
Black	20 x 16	HK-7762	\$2.15	\$1.90	\$1.70
Black	24 x 20	HK-7764	\$2.50	\$2.20	\$2.05
Black	35 x 19	HK-7766	\$3.45	\$3.05	\$2.75

PUSH ON - COLOURED CAP
Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Red	18 x 20	HK-7705	\$0.95	\$0.85	\$0.75
Yellow	18 x 20	HK-7713	\$0.95	\$0.85	\$0.75
Black	18 x 20	HK-7707	\$0.95	\$0.85	\$0.75
White	18 x 20	HK-7715	\$0.95	\$0.85	\$0.75
Blue	18 x 20	HK-7709	\$0.95	\$0.85	\$0.75
Grey	18 x 20	HK-7717	\$0.95	\$0.85	\$0.75
Green	18 x 20	HK-7711	\$0.95	\$0.85	\$0.75

BLACK PLASTIC WITH POINTER
Brass ferrule insert. Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Black	23 x 14	HK-7787	\$1.85	\$1.65	\$1.45

TECH TALK!

CAUTION WHEN ORDERING!

When ordering knobs (from any supplier) double check that the knob you are getting will fit the shaft of the component you are using it with. For example a knob with a 6mm shaft hole will not accept a 1/4" shaft. As you are probably aware 1/4" equals 6.35mm. That 0.35mm is enough to render the knob unusable.



METRIC
Suits our 9mm Mini Potentiometers. Matches HK-7760/66 series.
Fits all standard metric shafts, including RP-8504 series, RP-8610 series & RP-8706 series on page 159.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Black	15 x 14	HK-7770	\$1.75	\$1.55	\$1.40
Black	20 x 16	HK-7772	\$2.15	\$1.90	\$1.70

SKIRT NUMBERED 1-10
Grubscrew fixing - brass ferrule insert. Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Silver/Black	29 x 18	HK-7788	\$3.45	\$3.05	\$2.75
Silver/Black	36 x 23.5	HK-7549	\$3.45	\$3.05	\$2.75

PUSH ON - 18T SPLINE
Suits our 9mm Mini Potentiometers. Matches HK-7760/66 series.
Fits all standard metric shafts.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Grey/Red	13 x 18	HK-7730	\$1.15	\$1.00	\$0.90
Grey/Yellow	13 x 18	HK-7731	\$1.15	\$1.00	\$0.90
Grey/Green	13 x 18	HK-7732	\$1.15	\$1.00	\$0.90
Grey/Blue	13 x 18	HK-7733	\$1.15	\$1.00	\$0.90
Grey/White	13 x 18	HK-7734	\$1.15	\$1.00	\$0.90

PLASTIC POINTER
Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Black	19 x 32	HK-7700	\$1.65	\$1.45	\$1.30

ALUMINIUM / PLASTIC INSERT KNOBS



BRUSHED ALUMINIUM
Ideal for HiFi projects. Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Silver	16 x 14	HK-7020	\$3.45	\$3.05	\$2.75
Silver	22 x 14	HK-7022	\$3.65	\$3.25	\$2.90

BLACK ANODISED ALUMINIUM
Grub screw fixing. Suit 0.25"/6.35mm shaft.

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Black	16 x 14	HK-7009	\$3.45	\$3.05	\$2.75
Black	22 x 14	HK-7010	\$3.65	\$3.25	\$2.90
Black	29 x 14	HK-7011	\$4.95	\$4.45	\$3.90



BLACK PLASTIC WITH ALUMINIUM INSERT
White pointers - brass insert.
Grub screw fixing.
Suit 0.25"/6.35mm shaft.

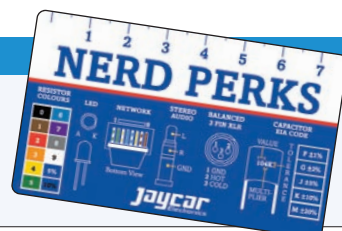
LIFETIME WARRANTY ON ALL KNOBS!

↑ Colour	Ø x H (mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
Silver/Black	20 x 18	HK-7786	\$2.85	\$2.53	\$2.23
Silver/Black	27 x 15	HK-7740	\$1.85	\$1.65	\$1.45
Silver/Black	32 x 17	HK-7741	\$2.45	\$2.21	\$1.95
Silver/Black	45 x 20	HK-7742	\$4.65	\$4.15	\$3.65

NERD PERKS REWARDS CARD

**Earn a point for every dollar spent at any Jaycar company owned store*
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ELECTROMECHANICAL & ENCLOSURES

ENCLOSURES

Metal Enclosures	165
Plastic Enclosures	161
Rack Systems	342

ELECTROMECH COMPONENTS

Circuit Protection	172
Fans	166
Heat Sinks	171
Mains Transformers	174
Relays	190
Switches	180

ABS ENCLOSURES

Jiffy Boxes

Manufactured from ABS plastic, these jiffy boxes not only look great, they have been designed to incorporate everything our customers wanted in a constructor's box. Sizes are compliant with industry standards externally and PCB fitting internally.

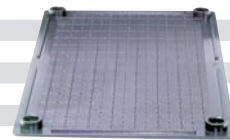
- Impervious, dimple-free finish provides good adhesion for screen printing
- Lids feature a 5mm grid of 'centre punch' type points on the underside for quick & accurate drilling
- Lids also feature a 10mm grid of scribed lines providing an easy and precise guide for cutting or filing cut-outs
- PCB guides in the sides of the box have snap-in locators. Eliminates the need for stand-off hardware when mounting boards horizontally
- Box also has a grid of 'centre punch' type points on the base of the inside
- Supplied with lid fixing screws and safety concealment plugs

Size	External (mm)		To Fit PCB (mm)	
	Dimensions		Vertical	Horizontal
UB1	158 x 95 x 53		89 x 48	134 x 88
UB2	197 x 113 x 63		105 x 57	172 x 104
UB3	130 x 68 x 44		63 x 39	107 x 62
UB5	83 x 54 x 31		50 x 27	62 x 49



WARRANTY

Size	Colour	Cat	Qty 1+	Qty 4+	Qty 10+
UB1	Black	HB-6011	\$4.45	\$3.95	\$3.45
UB2	Black	HB-6012	\$6.95	\$6.25	\$5.50
UB3	Black	HB-6013	\$3.95	\$3.45	\$3.15
UB3	Grey	HB-6023	\$3.95	\$3.45	\$3.15
UB5	Black	HB-6015	\$2.95	\$2.60	\$2.30
UB5	Grey	HB-6025	\$2.95	\$2.60	\$2.30
UB5	Clear	HB-6005	\$2.95	\$2.60	\$2.30



HB-6011

Inside of lid features 10mm grid

BLUE (TRANSLUCENT IMAC® LOOK)

Size	Colour	Cat	Qty 1+	Qty 4+	Qty 10+
UB5	Blue	HB-6004	\$3.45	\$3.05	\$2.75

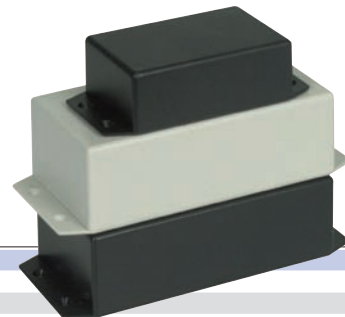
Flanged ABS Lids Version of Jiffy Boxes

These professional enclosures are identical to the UB3 & UB5 jiffy boxes, except they feature flanged lids for bulkhead/surface mounting. The exclusive moulded Jaycar drilling template on the inside of the lid is included, as are the screw hole plugs to hide the lid screws. Refer to the jiffy box information on the left for full detail on the drilling template. Ideal for automotive, security, audio/video plus a wide variety of other applications.

- Lid moulded, drill assist pilot holes on a 5 & 10mm pitch
- Four hole plugs to improve finish
- Moulded in ABS plastic
- Exclusive to Jaycar.

Size	External (mm)		To Fit PCB (mm)	
	Dimensions		Vertical	Horizontal
UB3	130 x 68 x 44		63 x 39	107 x 62
UB5	83 x 54 x 31		50 x 27	62 x 49

Size	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
UB3	Black	HB-6014	\$4.45	\$3.95	\$3.45
UB5	Black	HB-6016	\$2.95	\$2.60	\$2.30
UB3	Grey	HB-6024	\$4.45	\$3.95	\$3.45



WARRANTY

ABS Enclosures with Snap-in Hinged Lid

Versatile ABS plastic enclosures with self-locking construction that provides easy opening and closing of the enclosure without use of additional tools. The rubber cable entry/exit also means you don't need to get the drill out in order to run cabling from the box.

- Four internal moulded standoffs allow you mount a PCB horizontally
- Available in light grey and black colours, and made from high strength ABS plastic
- Full specifications see website

External dimensions (excluding flange):

HB-6431 & HB-6433 - 91(L) x 79(W) x 45(H)mm

HB-6432 & HB-6434 - 91(L) x 122(W) x 69(H)mm

Colour	Type	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Grey	1-Way Cable Entry	91	79	45	HB-6431	\$5.95	\$5.50	\$4.75
Black	1-Way Cable Entry	91	79	45	HB-6433	\$5.95	\$5.50	\$4.75
Grey	2-Way Cable Entry	91	122	69	HB-6432	\$7.95	\$6.95	\$6.25
Black	2-Way Cable Entry	91	122	69	HB-6434	\$7.95	\$6.95	\$6.25

HB-6431

HB-6433

HB-6434

HB-6432



WARRANTY

ELECTROMECHANICAL & ENCLOSURES

ABS PROJECT BOXES

ABS ENCLOSURES (CONTINUED)

IP54 High Quality Polystyrene Enclosures

This range includes a small flat case that is ideal for remote control transmitters, up to a case that is ideal for bench test equipment, and the best thing is that they are not expensive.

All are supplied with removeable front and rear panels which are light grey in colour, with the rest of the case dark grey. They are moulded in ABS, conform to IP54 and IEC529 and NEMA4 with respect to moisture and dust proof sealing and flame retardant to UL94-V0. Guide slots are provided for vertical mounting of PCBs, and spacers are moulded in for horizontal mounting.

All but the smallest two have M3 screws and brass inserts to hold top and bottom together.

DARK GREY ABS - FLAME RETARDANT TO UL94

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	50	16	HB-6030	\$4.95	\$4.45	\$3.90
90	50	24	HB-6031	\$5.95	\$5.25	\$4.75
120	60	30	HB-6032	\$7.95	\$6.95	\$6.25
150	80	30	HB-6034	\$12.95	\$11.35	\$10.35
190	100	40	HB-6036	\$18.95	\$16.95	\$14.95



Bulkhead ABS Mount Cases

4 cases in the range. The two smaller sizes have moulded in square cable entries on each end, and holes for screws bolts to mount the case.

- Colour is black.
- The two larger cases have a moulded bracket at each end with a screw hole for easy mounting.

HB-6075

The base snaps into place, and there is a round 10mm dia hole in one side for cable entry.

HB-6080

The base mounts with 4 self tapping screws.

HB-6081

The base mounts to case with 4 self tapping screws included.

HB-6082

This case has mounting brackets at each end that are easily removable if you do not wish to mount the case.

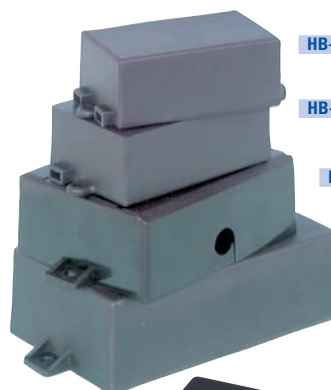
It has a clear plastic front/top plate that allows you to view the contents of the box.

This plate is screwed on from the base/back and cannot easily be removed from the front.

- Colour: Black and Clear

BLACK - HIGH IMPACT ABS

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
65	38	27	HB-6065	\$2.65	\$2.30	\$2.07
72	44	28	HB-6068	\$2.95	\$2.60	\$2.30
88	69	33	HB-6075	\$3.75	\$3.30	\$2.95
112	67	36	HB-6080	\$5.75	\$4.95	\$4.60



HB-6065

HB-6068

HB-6075

HB-6080



EXTRA DEEP BULKHEAD ABS MOUNT CASES

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
72	50	63	HB-6081	\$6.95	\$6.25	\$5.50

BULKHEAD MOUNT CASE WITH CLEAR FRONT / TOP

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
120	70	30	HB-6082	\$9.95	\$8.75	\$7.75



HB-6082

Snap Fit ABS Enclosures - Black

A range of black ABS enclosures with side flanges allowing wall, or even ceiling mount. Snap fit design locks together to enclose your circuit board or project inside.

- Material: ABS
- Colour: Black
- Wall mount holes: 2 x 4.5mm Dia.
- Internal holes: 4 x 2.6mm x 6mm

Cat.	Dimensions (Internal)	Dimensions (External)
HB-6006	45.44(W) x 45.84(D) x 18.0(H)mm	70.4(W) x 50.5(D) x 27.0(H)mm
HB-6007	65.44(W) x 45.84(D) x 33.0(H)mm	90.4(W) x 50.5(D) x 42.0(H)mm
HB-6008	75.44(W) x 76.04(D) x 33.5(H)mm	100.6(W) x 80.7(D) x 43.5(H)mm
HB-6009	100.44(W) x 66.04(D) x 41.1(H)mm	127.0(W) x 70.7(D) x 50.5(H)mm

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
70.4	50.5	27.0	HB-6006	\$3.95	\$3.55	\$3.15
90.4	50.5	42.0	HB-6007	\$4.95	\$4.45	\$4.00
100.6	80.7	43.5	HB-6008	\$5.95	\$5.25	\$4.75
127.0	70.7	50.5	HB-6009	\$6.25	\$5.60	\$5.00



HB-6006



HB-6007



Enclosure Potting Box

- Protect your electronic assemblies against shock, temperature, humidity and chemicals
- Moulded in high impact ABS plastic
- Black in colour
- Flammability rating: UL-94HB

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
39	39	27	HB-5202	\$1.50	\$1.35	\$1.20
45	30	25	HB-5200	\$1.00	\$0.90	\$0.80
70	50	20	HB-5204	\$2.95	\$2.60	\$2.30



ABS ENCLOSURES (CONTINUED)

IP65 Sealed ABS Enclosures

- Made with ABS Material
- Moulded in dark grey
- Operating temperature: -20 to +80C
- Bosses on internal base allow fixing of PCBs horizontally, or connection of terminals etc.
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Some sizes also available with external flange to allow mounting after the box has been sealed
- Designed to IP65 of IEC529 and NEMS 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (Not on HB-6120 or HB-6134)

↑ Colour	W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Dark Grey	64	58	35	HB-6120	\$5.95	\$5.25	\$4.75
Dark Grey	64	58	35	Flange HB-6121	\$6.95	\$6.25	\$5.50
Dark Grey	115	65	40	HB-6122	\$8.95	\$7.95	\$6.95
Dark Grey	115	65	40	Flange HB-6123	\$9.95	\$8.75	\$7.75
Dark Grey	115	65	55	HB-6124	\$9.95	\$8.75	\$7.75
Dark Grey	115	65	55	Flange HB-6138	\$10.95	\$9.75	\$8.75
Dark Grey	115	90	55	HB-6126	\$12.95	\$11.35	\$10.35
Dark Grey	115	90	55	Flange HB-6127	\$14.95	\$13.35	\$11.70
Dark Grey	171	121	55	Flange HB-6125	\$19.95	\$17.70	\$15.70
Dark Grey	171	121	55	HB-6128	\$17.95	\$15.95	\$14.35
Dark Grey	171	121	80	HB-6129	\$21.95	\$19.70	\$17.35
Dark Grey	222	146	55	HB-6130	\$24.95	\$22.35	\$19.70
Dark Grey	222	146	75	HB-6132	\$28.95	\$25.95	\$22.95
Dark Grey	240	160	90	HB-6134	\$37.95	\$33.95	\$30.45



WARRANTY

SPECIALTY PLASTIC CASES

IP65 Sealed Polycarbonate Enclosures

- Made with Polycarbonate material - moulded in light grey.
- Operating temperature: -40 to +125C
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Designed to IP65 of IEC 529 and NEMA 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (not on HB-6230)

LIGHT GREY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
82	80	55	HB-6230	\$12.95	\$11.35	\$10.35
115	65	40	HB-6212	\$13.95	\$12.35	\$10.95
115	90	55	HB-6216	\$14.95	\$13.35	\$11.70
171	121	55	HB-6218	\$19.95	\$17.95	\$15.95
171	121	80	HB-6224	\$23.95	\$21.35	\$18.95
222	146	55	HB-6220	\$29.95	\$26.95	\$23.95



WARRANTY

LIGHT GREY WITH CLEAR LID

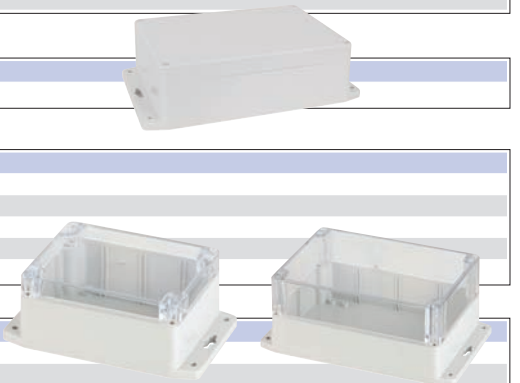
W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
171	121	55	HB-6248	\$23.95	\$21.35	\$18.95

LIGHT GREY WITH MOUNTING FLANGE

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB-6211	\$9.95	\$8.75	\$7.75
115	65	40	HB-6213	\$12.95	\$11.35	\$10.35
115	90	55	HB-6217	\$16.95	\$14.95	\$13.35
171	121	55	HB-6219	\$21.95	\$19.70	\$17.35
171	121	80	HB-6221	\$25.95	\$23.35	\$20.70

LIGHT GREY WITH CLEAR LID WITH MOUNTING FLANGE

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
115	65	40	HB-6249	\$14.95	\$13.35	\$11.70
115	90	55	HB-6251	\$17.95	\$15.95	\$14.35
115	121	80	HB-6223	\$28.95	\$25.95	\$22.95



Workbench sent to us by:
Derek
Jaycar Store: Perth

A very cluttered workshop but I can do almost anything in it.

For more details, visit:
www.jaycar.com.au/workbench



Ingress Protection Rating Chart

Eg. IP67 = Dust & Waterproof

	Solids	Liquids
X	Not rated	Not rated
0	Not protected	Not protected
1	Object >50mm	Water drops 0°
2	Object >12.5mm	Water drops 15°
3	Object >2.5mm	Water drops 60°
4	Object >1mm	Water splash
5	DUST PROTECTED (Limited ingress)	Water jets
6	DUST TIGHT (No ingress)	Powerful jets
6K	-	High pressure jets
7	-	Temporary submersion up to 30 mins to 1m
8	-	Permanent submersion up to minimum of 3m
9K	-	Powerful high temperature jets

ELECTROMECHANICAL & ENCLOSURES

ABS & SPECIALTY BOXES

SPECIALTY PLASTIC CASES (CONTINUED)

Remote Control Case

This case is ideal for a TV/VCR remote control. The case includes a battery compartment with sliding cover. It will accept either 2 x AA batteries or a 9V. The terminals for the AA batteries are included. The transmitting end of the box is supplied with 2 plastic panels, one the colour of the box, the other a red perspex for use with Infrared LEDs.

*Includes Battery Contact Kit & Translucent Panel



BLACK - HIGH IMPACT ABS UL94V0

W(mm)	D(mm)	H(mm)	Flame Retard	Cat.	Qty 1+	Qty 10+	Qty 20+
135	70	24	No	HB-5610	\$9.95	\$8.75	\$7.75

Keyfob Remote Control Case

Includes the case and hardware, which consists of pushbutton knobs, battery terminals, LED cover and keyring.



W (mm)	D (mm)	H (mm)	Cat.	Qty 1+
32	50	10	HB-5605	\$1.95

3 Pin Plug Pack Case

Make your own plug in power supplies with our vented case. Complete with earth pin!

- Plug pins to the new insulated standard



W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
55	47	95	HB-5900	\$5.95	\$5.25	\$4.75

ABS INSTRUMENT CASES

Plastic Instrument Case

- Modern design case in matt finish surface.
- Ideal for desktop instruments.
- Top and base is in grey, with dark grey front and rear panels.
- Moulded in high impact ABS plastic UL-94-HB
- Includes 4 pcs screws and rubber feet

LIGHT GREY - DARK GREY END PANELS

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
95	158	47	HB-5922	\$9.95	\$8.75	\$7.75



Mini ABS Instrument Case

The case is made from high impact ABS plastic and features adhesive rubber feet and removable front & rear plastic panels.

- Exclusive to Jaycar
- An ideal enclosure for AV projects, automotive, test gear, etc.



W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
130	90	35	HB-5960	\$6.95	\$6.25	\$5.50

High Impact ABS Instrument Case

This top quality case is ideally suited for instrumentation, telecommunication, or just to make your projects look fabulous.

- Removeable ABS front and rear panels
- Top and bottom have a tongue and groove joint and are lightly textured which offers a non-scratch surface & keeps the high quality finish
- Guide slots provided for vertical mounting of PCBs
- Bosses are provided for horizontal mounting of PCBs
- Screws supplied to secure lid to base

GREY ABS - UL94HB

W (mm)	D (mm)	H (mm)	End Panels	Cat.	Qty 1+	Qty 4+	Qty 10+
140	110	35	Black	HB-5970	\$6.25	\$5.60	\$5.00



Pro Quality ABS Instrument Cases

Our superb instrument cases will give your projects the professional appearance they deserve.

- Internal mounting posts enable a wide combination of PCB's, transformers, etc., to be accommodated
- PCB guide rails provided internally allow vertical PCB positioning to several locations
- Removable front and rear panels, attractive textured finish one side and plain the other. (Enables direct engraving, silk screen printing etc., to plain side)
- Top and bottom split apart for ease of construction or service. Feet included
- Great for test instruments and other high grade projects

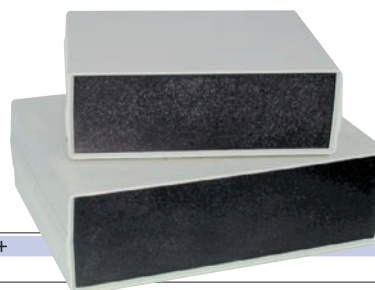
Available in 2 sizes

SMALL - NON VENTED

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
200	160	70	HB-5912	\$14.95	\$13.35	\$11.70

LARGE - VENTED CASE

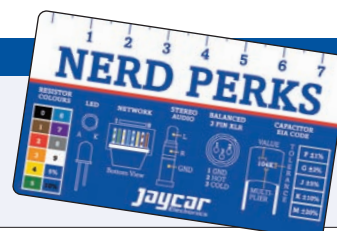
W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
253	190	82	HB-5910	\$24.95	\$22.45	\$19.95



NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



METAL INSTRUMENT CASES

Metal Enclosures

Aluminium cases finished in grey with black finish steel cover. Ventilated and supplied with rubber feet.

See page 342 for our range of Rack Mount Enclosures



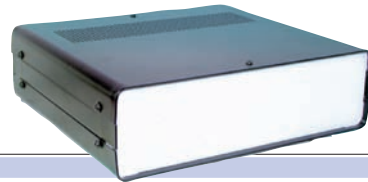
WARRANTY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	150	61	HB-5442	\$14.95	\$13.45	\$11.95
160	184	70	HB-5446	\$19.95	\$17.70	\$15.70

Professional Bench Enclosure

This cabinet has pre-punched ventilation holes, metal thread fastening screws, aluminium pre-painted front and rear panels, up to the minute styling and facilities to mount internal hardware without recourse to drilling lids. Apart from this, the enclosure features cabinet heights that comply with standard IEC297 rack heights. Even though it is not a rack cabinet many components (especially transformers) are made to comply to these height dimensions.

• Grey in colour.



WARRANTY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
304	279	88	HB-5556	\$59.95	\$53.95	\$47.95

METAL ENCLOSURES - DIECAST

Economy Diecast Aluminum Boxes

- Excellent screening properties for EMI and RFI
- Ideal for projects subject to weather
- Made from 380 Die-cast aluminium alloy (BS1490 LM24)
- Ideal for instruments, meter cases, filter networks etc
- Robust, light weight and easy to machine
- Ideal for projects involving heat as the case itself makes an excellent heatsink
- Close fitting flanged lids

See our range of knobs on page 160



WARRANTY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
51	51	32	HB-5060	\$7.95	\$6.95	\$6.25
111	60	30	HB-5062	\$9.95	\$8.75	\$7.75
111	60	54	HB-5063	\$12.95	\$11.35	\$10.35
119	94	34	HB-5067	\$14.95	\$13.35	\$11.70
119	94	57	HB-5064	\$18.95	\$16.95	\$14.95

IP65 Sealed Diecast Aluminium Boxes

This range of boxes compare in quality to those English and Canadian ones that are VERY expensive. These are ideal for housing electronic assemblies, pneumatic, hydraulic & electrical devices for commercial & industrial environments. Provides effective shielding of EMI and RFI.

- Aluminium diecast - resistant to atmospheric and marine corrosion
- Designed to IP65 of IEC529 and NEMA4 (dust and hoseproof)
- Wall mounting holes and lid fixing screws are outside the sealing area
- The lid incorporates a recessed neoprene gasket
- Bosses on internal base for fixing PCBs horizontally or connection of earth grounding, etc
- Internal guide slots for mounting PCB assemblies vertically
- Screw holes for lid mounting are roll threaded
- Captive, recessed lid screws
- Heat rating up to 400°C

Manufacturers and bulk users - contact Jaycar for bulk pricing.

Specifications	All
Wall thickness	3.4 +/-0.1mm
Box and lid	aluminium alloy ADC-10 to Japan Industrial Standard (JIS) in natural state
Gasket	neoprene, resistant to oil and petrol
Lid screws	M4 stainless steel (non magnetic)
Ground screw and washer, copper plated.	



WARRANTY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB-5030	\$9.95	\$8.75	\$7.75
115	65	30	HB-5036	\$14.95	\$13.35	\$11.70
115	65	55	HB-5040	\$18.95	\$16.95	\$14.95
115	90	55	HB-5042	\$21.95	\$19.70	\$17.35
171	121	55	HB-5046	\$34.95	\$31.45	\$27.90
222	146	55	HB-5050	\$36.95	\$33.45	\$29.45

IP65 Sealed Diecast Aluminium Boxes - Flanged Mount

Sealed aluminium enclosures for external use are provided with flanges and holes for wall mounting. Lid fixing bolts are located outside the sealing area to ensure better sealing. Made from aluminium alloy ADC-10 (JIS) and provides protection against dust and moisture (IP65). Features racks and guides for mounting a PCB horizontally or vertically.

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	36	30	HB-5029	\$10.95	\$9.75	\$8.75
64	58	35	HB-5031	\$11.95	\$10.70	\$9.50
115	90	55	HB-5044	\$23.95	\$21.35	\$18.95
171	121	55	HB-5041	\$36.95	\$33.45	\$29.45



WARRANTY

ELECTROMECHANICAL & ENCLOSURES VENTILATION FANS

MECHANICAL VENTILATION (FANS)



Suitable for computers, office machinery, appliances, copying machines, power units, amplifiers, automatic vending machines, air conditioning, medical equipment etc.

- Long life - 60,000 hours at 25°C, 30,000 hours at 40°C
- Ball bearing: 100,000 hrs @ 25°C
- Operating temperature -20°C to +70°C
- Can be mounted on suction or discharge side
- Wiring will not burn out even if rotating parts are restricted



Size mm	Depth mm	Operating Volt	Bearing Type	Air Volume (CFM)	Speed (RPM)	Connection	Housing	Tacho	Cat	Page
5VDC AXIAL FAN										
30	6	5VDC	Ball	3.1	8,000	Flylead	Plastic	No	YX-2500	166
12VDC AXIAL FANS										
30	6	12VDC	Ball	3.1	8,000	Flylead	Plastic	No	YX-2501	166
40	10	12VDC	Sleeve	5.4	6,000	Flylead	Plastic	No	YX-2503	166
40	20	12VDC	Sleeve	7.6	7,000	Flylead	Plastic	No	YX-2502	166
40	10	12VDC	Ball	5.4	6,000	Flylead & Plug	Plastic	Yes	XC-5054	167
50	15	12VDC	Sleeve	16.6	5,500	Flylead	Plastic	No	YX-2504	167
50	10	12VDC	Ball	11.6	5,500	Flylead & Plug	Plastic	Yes	XC-5055	167
60	25.4	12VDC	Sleeve	20	4,000	Flylead	Plastic	No	YX-2505	167
80	25.4	12VDC	Sleeve	34	3,000	Flylead	Plastic	No	YX-2512	167
80	25.4	12VDC	Ball	34	3,000	Flylead	Plastic	No	YX-2513	167
80	20	12VDC	Ball	42	3,100	Flylead	Plastic	No	YX-2523	168
80	25	12VDC	Magnetic	28.1	2,000	Flylead	Polycarbonate	No	YX-2580 *	170
80	25	12VDC	Ball	20.7	1,600	3 Pin Molex	Polycarbonate	No	YX-2570 *	170
90	25	12VDC	Sleeve	59	3,000	Flylead	Plastic	No	YX-2521	168
92	25	12VDC	Magnetic	39.8	2,000	Flylead	Polycarbonate	No	YX-2582 *	170
92	25	12VDC	Ball	31.3	1,500	3 Pin Molex	Polycarbonate	No	YX-2572 *	170
120	25.4	12VDC	Ball	88	3,000	Flylead	Plastic	No	YX-2518	168
120	25	12VDC	Ball	88	3,000	Flylead	Plastic	No	YX-2522	168
120	25	12VDC	Magnetic	64.3	1,500	Flylead	Polycarbonate	No	YX-2584 *	170
120	25	12VDC	Ball	37	1,000	3 Pin Molex	Polycarbonate	No	YX-2574 *	170
12VDC BLOWER FANS										
97 x 94	33	12VDC	Ball	26	3,600	Flylead	Plastic	No	YX-2532	168
24VDC AXIAL FAN										
80	25.4	24VDC	Ball	40	3,200	Flylead	Plastic	No	YX-2542	168
240VAC AXIAL FANS										
80	25.4	240VAC	Sleeve	23	2,800	Flylead	Metal	No	YX-2509	169
80	38	240VAC	Sleeve	30	2,800	Flylead	Metal	No	YX-2510	169
80	38	240VAC	Ball	30	2,800	Flylead	Metal	No	YX-2508	169
120	25.4	240VAC	Sleeve	80	2,350	Solder	Metal	No	YX-2516	169
120	38	240VAC	Sleeve	105	3,000	Solder	Metal	No	YX-2514	169
120	38	240VAC	Ball	105	3,000	Solder	Metal	No	YX-2517	169
150	55	240VAC	Ball	230	3,400	Use PS-4160	Metal	No	YX-2520	169

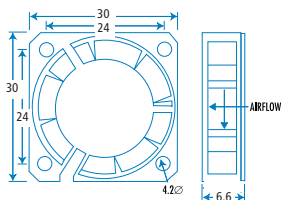
Note: Fans with * on page 170 are not Sirocco brand and have specific technical data. Please refer to that page.

TECH TALK!

All 240V rated fans work equally well on 230V mains

5V/12VDC FANS

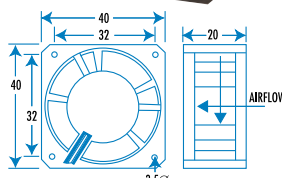
30mm Thin - 2 Wire



Specifications	YX-2500	YX-2501
Voltage (V)	5VDC	12VDC
Current (mA)	200	120
Dimensions (mm)		30 x 30 x 6
Air Volume (m³/min)		0.108
Air Volume (CFM)		3.1
Speed (RPM)		8,000
Noise (dBA)		27
Bearing System		Ball
Housing		Plastic, GRP filled
Impeller		Plastic, GRP filled
Connections		Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	5VDC, 30mm YX-2500	\$13.95	\$12.35	\$10.95
	12VDC, 30mm YX-2501	\$13.95	\$12.35	\$10.95

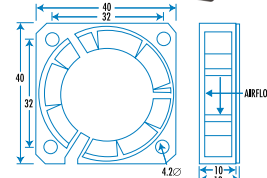
40mm - 2 Wire



Specifications	YX-2502
Voltage (V)	12VDC
Current (mA)	100
Dimensions (mm)	40 x 40 x 20
Air volume (m³/min)	0.215
Air volume (CFM)	7.6
Speed (RPM)	7000
Noise (dBA)	32
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	40mm YX-2502	\$19.95	\$17.70	\$15.70

40mm Thin - 2 Wire



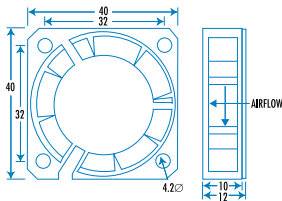
Specifications	YX-2503
Voltage (V)	12VDC
Current (mA)	80
Dimensions (mm)	40 x 40 x 10
Air volume (m³/min)	0.16
Air volume (CFM)	5.4
Speed (RPM)	6000
Noise (dBA)	30
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	40mm YX-2503	\$16.95	\$14.95	\$13.35

12VDC FANS (CONTINUED)

40mm Ball Bearing - 3 Wire

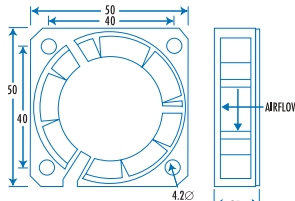
The third wire provides a pulse output - 1 pulse per revolution.



Specifications	XC-5054
Voltage (V)	12VDC
Current (mA)	80
Dimensions (mm)	40 x 40 x 10
Air volume (m³/min)	0.16
Air volume (CFM)	5.4
Speed (RPM)	6000
Noise (dBA)	30
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	40mm XC-5054	\$15.95	\$14.35	\$12.75

50mm Thin - 2 Wire

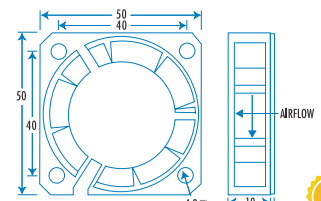


Specifications	YX-2504
Voltage (V)	12VDC
Current (mA)	190
Dimensions (mm)	50 x 50 x 15
Air volume (m³/min)	0.7
Air volume (CFM)	0.16
Speed (RPM)	5500
Noise (dBA)	33
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	50mm YX-2504	\$17.95	\$15.95	\$14.35

50mm Ball Bearing - 3 Wire

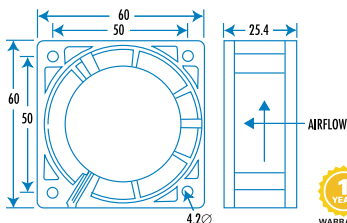
The third wire provides a pulse output - 1 pulse per revolution.



Specifications	XC-5055
Voltage (V)	12VDC
Current (mA)	130
Dimensions (mm)	50 x 50 x 10
Air volume (m³/min)	0.33
Air volume (CFM)	11.6
Speed (RPM)	5500
Noise (dBA)	31
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	50mm XC-5055	\$15.95	\$14.35	\$12.75

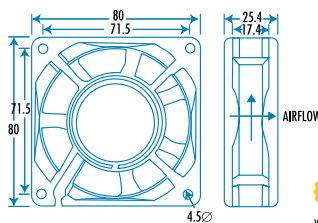
60mm - 2 Wire



Specifications	YX-2505
Voltage (V)	12VDC
Current (mA)	130
Dimensions (mm)	60 x 60 x 25.4
Air volume (m³/min)	0.57
Air volume (CFM)	20
Speed (RPM)	4000
Noise (dBA)	30
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	60mm YX-2505	\$17.95	\$15.95	\$14.35

80mm - 2 Wire

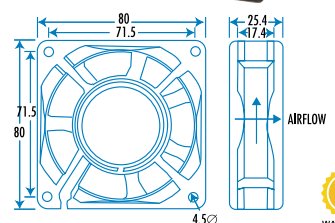


Specifications	YX-2512
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25.4
Air volume (m³/min)	0.97
Air volume (CFM)	34
Speed (RPM)	3000
Noise (dBA)	32
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	80mm YX-2512	\$17.95	\$15.95	\$14.35

80mm Ball Bearing - 2 Wire

• Life 100,000 hours at 25°C



Specifications	YX-2513
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25.4
Air volume (m³/min)	0.97
Air volume (CFM)	34
Speed (RPM)	3000
Noise (dBA)	32
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

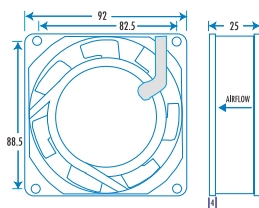
↑	Cat	Qty 1+	Qty 4+	Qty 10+
	80mm YX-2513	\$19.95	\$17.70	\$15.70

ELECTROMECHANICAL & ENCLOSURES

VENTILATION FANS

12VDC FANS (CONTINUED)

90mm - 2 Wire



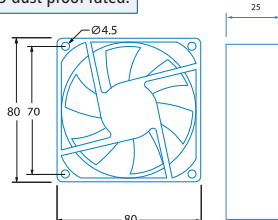
Specifications	YX-2521
Voltage (V)	12VDC
Current (mA)	320
Dimensions (mm)	90 x 90 x 25
Air volume (m³/min)	1.67
Air volume (CFM)	59
Speed (RPM)	3000
Noise (dBA)	36
Bearing	Sleeve
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	90mm YX-2521	\$19.95	\$17.70	\$15.70

80mm Ball Bearing - IP55



TECH TALK!
IP55 dust proof rated.



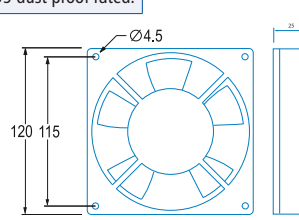
Specifications	YX-2523
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25
Air volume (m³/min)	1.2
Air volume (CFM)	42
Speed (RPM)	3100
Noise (dBA)	32
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	80mm YX-2523	\$24.95	\$22.35	\$19.70

120mm Ball Bearing - IP55



TECH TALK!
IP55 dust proof rated.

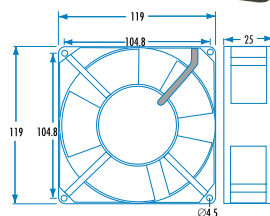


Specifications	YX-2522
Voltage (V)	12VDC
Current (mA)	380
Dimensions (mm)	120 x 120 x 25
Air volume (m³/min)	3
Air volume (CFM)	88
Speed (RPM)	3000
Noise (dBA)	45
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	120mm YX-2522	\$36.95	\$33.45	\$29.45

12VDC FANS (CONTINUED)

120mm Thin Ball Bearing - 2 Wire



Specifications	YX-2518
Voltage (V)	12VDC
Current (mA)	360
Dimensions (mm)	120 x 120 x 25.4
Air volume (m³/min)	2.3
Air volume (CFM)	88
Speed (RPM)	3000
Noise (dBA)	42
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	120mm YX-2518	\$28.95	\$25.95	\$22.95

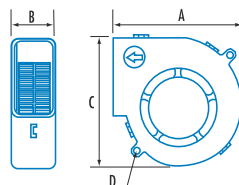
BLOWER FAN - 12VDC

97mm x 94mm Blower Fan Ball Bearing - 2 Wire



Ideal for applications where space is limited but high air volume is required.

A=97mm
B=33mm
C=94mm



Specifications	YX-2532
Voltage (V)	12VDC
Current (mA)	860
Dimensions (mm)	97 x 94 x 33
Air volume (m³/min)	0.74
Air volume (CFM)	26
Speed (RPM)	3600
Noise (dBA)	51
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

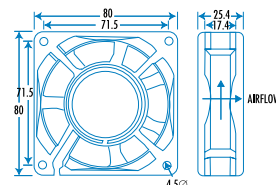
↑	Cat	Qty 1+	Qty 4+	Qty 10+
	97x94mm YX-2532	\$29.95	\$26.90	\$23.70

24VDC FANS

80mm 24VDC Thin Ball Bearing Version - 2 Wire



Life expectancy 100,000 hours @ 25°C.



Specifications	YX-2542
Voltage (V)	24VDC
Current (mA)	130
Dimensions (mm)	80 x 80 x 25.4
Air volume (m³/min)	1.1
Air volume (CFM)	40
Speed (RPM)	3200
Noise (dBA)	35
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	80mm YX-2542	\$29.95	\$26.90	\$23.70

240VAC FANS

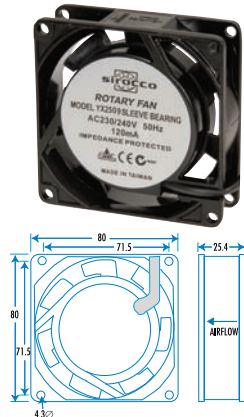
80mm Thin 2 Wire

TECH TALK!

All 240V rated fans work equally well on 230V mains



Specifications	YX-2509
Voltage (V)	240VAC
Current (mA)	120
Dimensions (mm)	80 x 80 x 25.4
Air volume (m³/min)	0.67
Air volume (CFM)	23
Speed (RPM)	2800
Noise (dBA)	33
Bearing	Sleeve
Housing - Diecast	Diecast zinc, aluminium
Impeller	Plastic, fibreglass filled
Connections	Flylead

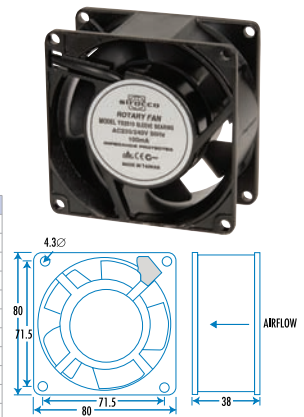


↑	240VAC	80mm	Cat	Qty 1+	Qty 4+	Qty 10+
			YX-2509	\$29.95	\$26.90	\$23.70

80mm Standard - 2 Wire



Specifications	YX-2510
Voltage (V)	240VAC
Current (mA)	80
Dimensions (mm)	80 x 80 x 38
Air volume (m³/min)	0.88
Air volume (CFM)	30
Speed (RPM)	2800
Noise (dBA)	35
Bearing	Sleeve
Housing - Diecast	Aluminium, powdercoated
Impeller	Plastic, fibreglass filled
Connections	Flylead

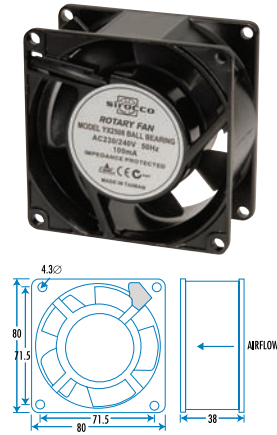


↑	240VAC	80mm	Cat	Qty 1+	Qty 4+	Qty 10+
			YX-2510	\$29.95	\$26.90	\$23.70

80mm Ball Bearing - 2 Wire



Specifications	YX-2508
Voltage (V)	240VAC
Current (mA)	100
Dimensions (mm)	80 x 80 x 38
Air volume (m³/min)	0.88
Air volume (CFM)	30
Speed (RPM)	2800
Noise (dBA)	32
Bearing	Ball
Housing - Diecast	Aluminium, powdercoated
Impeller	Plastic, fibreglass filled
Connections	Flylead
Other	Life - 100,000 hrs@25°C

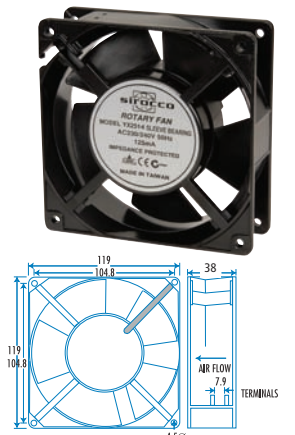


↑	240VAC	80mm	Cat	Qty 1+	Qty 4+	Qty 10+
			YX-2508	\$36.95	\$33.45	\$29.45

120mm - Solder Lugs



Specifications	YX-2514
Voltage (V)	240VAC
Current (mA)	125
Dimensions (mm)	120 x 120 x 38
Air volume (m³/min)	3
Air volume (CFM)	105
Speed (RPM)	3000
Noise (dBA)	47
Bearing	Sleeve
Housing - Diecast	Aluminium
Impeller	Plastic, fibreglass filled
Connections	Solder lugs
Other	-

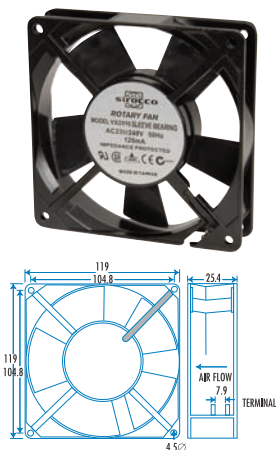


↑	240VAC	120mm	Cat	Qty 1+	Qty 4+	Qty 10+
			YX-2514	\$28.95	\$25.95	\$22.95

120mm Thin - Solder Lugs

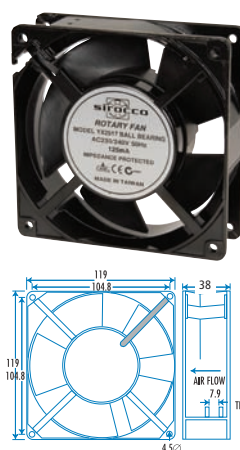
120mm Ball Bearing - Solder Lugs

150mm Ball Bearing - 2 Wire



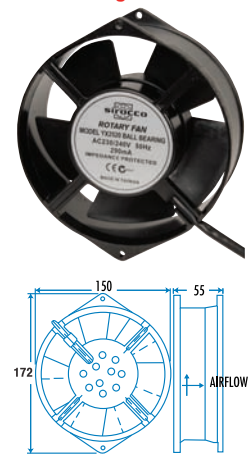
Specifications	YX-2516
Voltage (V)	240VAC
Current (mA)	120
Dimensions (mm)	120 x 120 x 25.4
Air volume (m³/min)	2.3
Air volume (CFM)	80
Speed (RPM)	2350
Noise (dBA)	44
Bearing	Sleeve
Housing - Diecast	Aluminium
Impeller	Plastic, fibreglass filled
Connections	Solder lugs
Other	-

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	120mm YX-2516	\$29.95	\$26.90	\$23.70



Specifications	YX-2517
Voltage (V)	240VAC
Current (mA)	125
Dimensions (mm)	120 x 120 x 38
Air volume (m³/min)	3
Air volume (CFM)	105
Speed (RPM)	3000
Noise (dBA)	47
Bearing	Ball
Housing - Diecast	Aluminium
Impeller	Plastic, fibreglass filled
Connections	Solder lugs
Other	-

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	120mm YX-2517	\$36.95	\$33.45	\$29.45



Specifications	YX-2520
Voltage (V)	240VAC
Current (mA)	290
Dimensions (mm)	150 x 172 x 55
Air volume (m³/min)	6.57
Air volume (CFM)	230
Speed (RPM)	3400
Noise (dBA)	53
Bearing	Ball
Housing - Diecast	Aluminium
Impeller	Plastic, fibreglass filled
Connections	Flylead
Other	-

↑	Cat	Qty 1+	Qty 4+	Qty 10+
	150mm YX-2520	\$84.95	\$76.50	\$67.95

ELECTROMECHANICAL & ENCLOSURES VENTILATION FANS

12VDC MAGLEV & HYDRODYNAMIC FANS

Super Long-Life Low-Noise MagLev Bearing Case Fans



Featuring a patented Nanoflux bearing that incorporates magnetic levitation (maglev) technology and precise manufacturing, these premium quality fans ensure an extremely long operational life of 100,000hrs at 40°C (even longer at 25°C). Not only does the unique self-lubricating maglev bearing design offer extremely long life, but also extremely low noise levels compared to traditional ball bearings, and also offers the ability for the fan impeller to be removed for cleaning. The fan impeller itself has a winglet tip design and is UV reactive. Rubber fan mounts are also included to eliminate fan motor vibrations entering the case, further reducing noise levels. Dust and waterproof to IP54, these fans are sure to last even in harsh conditions.

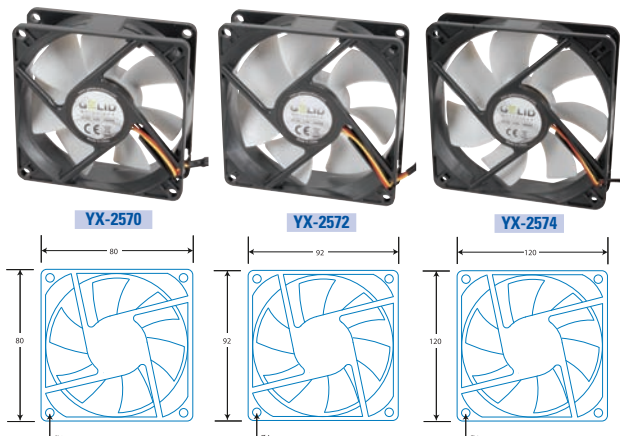
- Flylead with 3 pin molex connector
- Black: earth, Red: 12V+, Yellow: Tacho output (1 pulse/rev)
- Nanoflux magnetic levitation bearings
- Polycarbonate housing
- UV reactive polycarbonate impellers



Specifications	YX-2580	YX-2582	YX-2584
Voltage (V)	12VDC	12VDC	12VDC
Starting voltage (V)	5VDC	5VDC	5VDC
Current (mA)	100	180	220
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air volume (m³/min)	0.8	1.13	1.82
Air volume (CFM)	28.1	39.8	64.3
Speed (RPM)	2000	2000	1500
Noise (dBA)	21	22.5	25
Bearings	Nanoflux magnetic levitation	Nanoflux magnetic levitation	Nanoflux magnetic levitation
Housing	Polycarbonate	Polycarbonate	Polycarbonate
Impellers	UV reactive polycarbonate	UV reactive polycarbonate	UV reactive polycarbonate
Connections	Flylead with 3 pin molex	Flylead with 3 pin molex	Flylead with 3 pin molex

	Cat	Qty 1+	Qty 4+	Qty 10+
12VDC 80mm	YX-2580	\$24.95	\$22.35	\$19.70
12VDC 90mm	YX-2582	\$29.95	\$26.90	\$23.70
12VDC 120mm	YX-2584	\$34.95	\$31.45	\$27.90

Silent Hydrodynamic Bearing Case Fans



Designed to provide additional airflow without increasing noise levels these fans have precisely balanced blades and long-life hydro-dynamic bearing. Ultra-low noise making these fans perfect for a home theatre PC, or ventilating the amplifier wedged into your entertainment unit. To further improve silence, rubber fan mounts are included to eliminate fan motor vibrations inducing vibration noise.

- Rated to last for 50,000 hours at 40°C (more at 25°C).

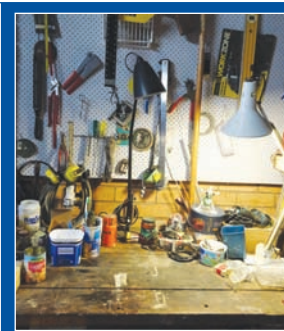


Specifications	YX-2570	YX-2572	YX-2574
Voltage (V)	12VDC	12VDC	12VDC
Current (mA)	80	130	80
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air volume (m³/min)	0.59	0.89	1.05
Air volume (CFM)	20.7	31.3	37
Speed (RPM)	1600	1500	1000
Noise (dBA)	18	20	20.2
Bearings	Ball (hydrodynamic)	Ball (hydrodynamic)	Ball (hydrodynamic)
Housing	Polycarbonate	Polycarbonate	Polycarbonate
Impellers	Polycarbonate	Polycarbonate	Polycarbonate
Connections	Flylead with 3 Pin Molex	Flylead with 3 Pin Molex	Flylead with 3 Pin Molex

	Cat	Qty 1+	Qty 4+	Qty 10+
12VDC 80mm	YX-2570	\$19.95	\$17.70	\$15.70
12VDC 90mm	YX-2572	\$24.95	\$22.35	\$19.70
12VDC 120mm	YX-2574	\$28.95	\$25.95	\$22.95

Workbench sent to us by: Martin Jaycar Store: Caloundra

I've just tidied up, hence the clear space in the foreground. All the recycled containers hold nuts, screw and components of disassembled work in progress. My current favourite item is the little Martian toy I found in the garden (it's not allowed in the house, so it watches me while I work in the garage).



For more details, visit:
www.jaycar.com.au/workbench

RELATED PRODUCTS

Fan Power Lead

Use with our 240VAC fans with two lugs for power connection. Moulded plug to suit fan one end, and bare wires at the other.

	Cat	Qty 1+	Qty 4+	Qty 10+
Length 1.2m	PS-4160	\$3.95	\$3.45	\$3.15

Plastic Fan Guard / Filter Kits

Foam filter prevents dust particles entering the fan. Rated to UL 94V-0.

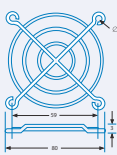
- We recommend periodic cleaning of the foam filter to prevent clogging and restricting air flow.
- Available in 3 sizes.



	Cat	Qty 1+	Qty 4+	Qty 10+
Width 60mm	YX-2550	\$6.95	\$6.25	\$5.50
Width 80mm	YX-2552	\$6.95	\$6.25	\$5.50
Width 120mm	YX-2554	\$7.95	\$6.95	\$6.25

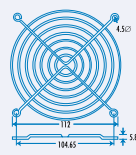
Fan Finger Guards

80mm Fans



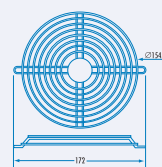
YX-2511

120mm Fans



YX-2515

150mm Fans



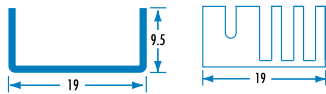
YX-2525

	Cat	Qty 1+	Qty 4+	Qty 10+
Width 80mm	YX-2511	\$3.95	\$3.45	\$3.15
Width 120mm	YX-2515	\$4.95	\$4.45	\$3.90
Width 150mm	YX-2525	\$8.95	\$7.95	\$6.95

HEATSINKS & ACCESSORIES

TO-220 Mini (6073B Type)

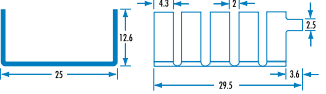
- Equivalent to popular 6073 type.



↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
20°C/W	HH-8502	\$0.85	\$0.75	\$0.65

TO-220 (6021 Type)

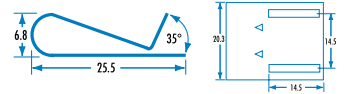
- Solderable PCB mounting pins



↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
12°C/W	HH-8504	\$1.45	\$1.30	\$1.15

TO-220 Clip-on (6043 Type)

The heatsink will just clip over a device when required for permanent or temporary installation.

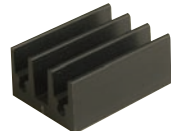


↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH-8503	\$1.20	\$1.05	\$0.95

TO-220

These PCB mount heatsinks have two 'screw flute' channels to aid in fastening to a board or surface.

- 16(W) x 21.8(D) x 10(H)mm

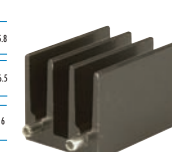


↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH-8514	\$1.75	\$1.55	\$1.40

TO-220

Same dimensions as our HH-8514 only with longer fins. These PCB mount heatsinks have two tinned pins to aid in fastening the sink to a board or surface.

- 16(W) x 21.8(D) x 15.8(H)mm
- Pins 2mm dia. x 3mm long



↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
19°C/W	HH-8516	\$1.55	\$1.35	\$1.20

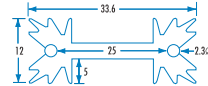
PC Mount TO-3P

Will accept up to TO-3P size flat pack transistors. (This includes TO-220). Includes 2 PC pins, which help stabilise the heatsink and allow you to solder to PCB pads.



25MM HIGH (6098 TYPE)

- Size 33.6(W) x 12(D) x 25(H)mm.
- Cat. HH-8520



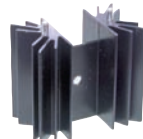
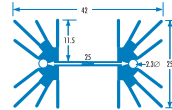
40MM HIGH (6099 TYPE)

- Size 33.6(W) x 12(D) x 40(H)mm.
- Cat. HH-8522

↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
17°C/W	HH-8520	\$1.55	\$1.35	\$1.20
11°C/W	HH-8522	\$2.65	\$2.30	\$1.95

Heavy Duty TO-3P (ML97 Type)

Heavy duty version of the heatsinks described above.

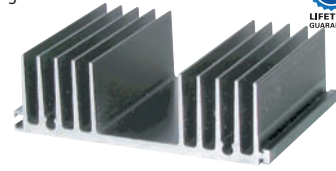
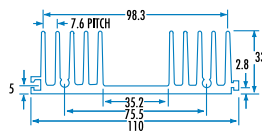


- Solderable screw studs.
- Size 42(W) x 25(D) x 38(H)mm

↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
7.5°C/W	HH-8526	\$2.75	\$2.45	\$2.15

Versatile Heavy Duty

- Allows horizontal & vertical mounting.
- Length 72mm
- Undrilled.

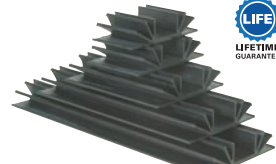
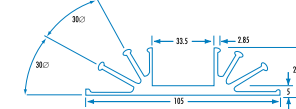


↑ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
2.2°C/W	HH-8566	\$14.95	\$13.35	\$11.70

High Efficiency Fan Type

Available in various lengths.

- 105mm wide.



↑ Length	Thermal resist.	Cat.	Qty 1+	Qty 4+	Qty 10+
55mm	2.5°C/W	HH-8570	\$5.95	\$5.25	\$4.75
72mm	2.2°C/W	HH-8572	\$8.95	\$7.95	\$6.95
135mm	1.1°C/W	HH-8573	\$11.95	\$10.70	\$9.50

RELATED PRODUCTS

25% Silver Heatsink Compound - 1.5 Gram Tube

Contains 25% Silver for more efficient heat transfer. Ready to use syringe. Please note that Silver Heatsink Compound does conduct electricity and care should be taken when being used.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5g Tube	NM-2013	\$5.95	\$5.25	\$4.75

Heatsink Compound - 3g Syringe with Applicator

Features Nano Diamond for high thermal conductivity. It is electrically insulated so that you can apply to all electronic components and IC's and protects from short circuits.

- Instant conductivity
- Complete insulation
- Thermal conductivity: >3.8W/m-K
- Thermal resistance: <0.087°C-in 2/W
- Specific resistance: >2.4
- Operating temperature: -50°C-240°C



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
3g Tube	NM-2018	\$7.95	\$7.15	\$6.25

Heatsink Compound - Adhesive

Non electrically conductive. One 5 gram tube will adhere up to 16 TO-3 package transistors.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
5g Tube	NM-2014	\$7.95	\$6.95	\$6.25

Heatsink Compound

Heat conducting paste facilitates heat transfer from semiconductors to heatsinks. One 10g tube will do up to 30 TO-3 package transistors.



- Non electrically conductive

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
10g Tube	NM-2010	\$3.95	\$3.45	\$3.15
50g Syringe	NM-2011	\$9.95	\$8.75	\$7.75
150g Tube	NM-2012	\$19.95	\$17.70	\$15.70

Thermal Transfer Tape 100 x 100 x 0.5mm - Pkt 2

When it comes to attaching devices like star LED modules to heatsinks, it's often not easy because they don't have screw 'eyes' like a TO220 transistor package. Using this thermal transfer tape, it's a breeze. The material is self adhesive and provides good thermal conductivity making it easy for chipsets, LED modules, memory modules etc. 2pcs of 100mm x 100mm x 0.5mm sheets supplied. Just cut to size. 0.5mm thickness.

Specifications	NM-2790
Thermal Conductivity	1.6 W/m-k
Flammability Level	UL94V-0
Working Temperature Range	-60 ~ +250°C
Insulation Strength	>7,000V/mm



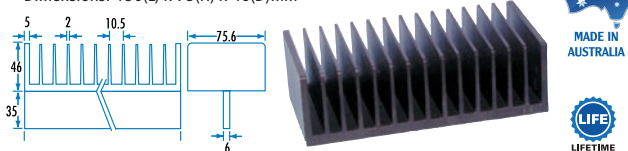
↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	NM-2790	\$12.95	\$11.35	\$10.35

ELECTROMECHANICAL & ENCLOSURES HEATSINK ACCESSORIES & THERMAL PROTECTION

HEATSINKS & ACCESSORIES (CONTINUED)

Diecast

- Dimensions: 150(L) x 75(H) x 46(D)mm



	Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
No Bracket	1.2°C/W	HH-8555	\$19.95	\$17.95	\$15.95

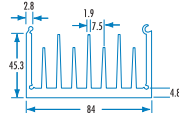
Fan Assisted-Type Heatsink

This heatsink is designed to mate with itself to form a tunnel. The heatsink extrusion has a screw flute centre to enable 4 x No.6 self-tapping screws to fasten an 80mm standard type fan on one (or both) end/s to drive air through the heatsink assembly. It is ideal for high power amplifiers and power supplies. The entire assembly, including fan/s can still fit inside a 2 x Rackunit (88mm) enclosure. The heatsink also features ribbed fins for extra surface area, a 4mm thick base to enable thread tapping and small vee grooves on 5mm centres to facilitate mounting hole location. The centre groove, for example, is directly below the middle fin.

- Two standard lengths are available, black anodised.

Suitable fans are YX-2512 (12VDC) or YX-2510 (240VAC).

Note: Two heatsinks pictured



Thermal Characteristics	Cooling Mode	Rating (approx)
Assembly Type		
Single Length	Convection	0.83°C/W
Tunnel Assembly	Convection	0.70°C/W
Tunnel Assembly	Fan Assisted (single)	0.35°C/W
Tunnel Assembly	Fan Assisted (dual)	0.30°C/W

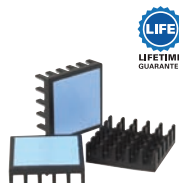


	Cat.	Qty 1+	Qty 4+	Qty 10+
Length 225mm	HH-8530	\$24.95	\$22.35	\$19.70
Length 254mm	HH-8532	\$27.95	\$24.95	\$22.35

Heatsink Pin Grid Array with Adhesive Thermal Transfer Tape

This heatsink makes a perfect partner to Star LED modules. It doesn't get quicker or easier than this! Just peel the backing from the pre-mounted thermal transfer tape, press the Star LED (or whatever device) to the heatsink and SHAZAM!! It's ready to go! Don't be fooled by the compact size. The "pin grid array" design provides excellent low thermal resistance and heat dissipation. Sold individually.

- Dimensions: 21(L) x 21(W) x 6.2(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Thermal resistance 5.9°C/W	HH-8580	\$3.25	\$2.90	\$2.60

Transistor Clamps

To clamp (TO-220) devices to a heatsink.



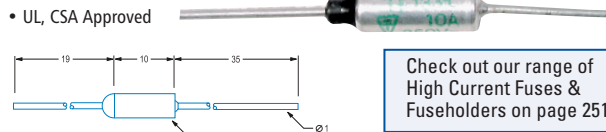
	Cat.	Qty 1+	Qty 10+	Qty 50+
Single TO-220 Transistor Clamps Pk 10	HH-8600	\$8.95	\$7.95	\$6.95
Single TO-220 Transistor Clamps Pk 100	HH-8602	\$24.95	\$22.35	\$19.70
Dual TO-220 Transistor Clamps Pk 100	HH-8607	\$19.95	\$17.70	\$13.70
Dual TO-220 Transistor Clamps ea	HH-8610	\$1.45	\$1.30	\$1.15

THERMAL PROTECTION

Thermal Fuses

These devices go open circuit permanently when they reach their rated temperature. They are used extensively in 240V mains rated appliances including, heaters, fan heaters, curlers, hair dryers, toasters, etc.

- UL, CSA Approved



Cat. No	Tf°C	Th°C	Tm°C	Opening Temp
ST-3800	75	50	105	70°C +3/-1
ST-3804	136	101	166	132°C +2/-2
ST-3808	158	123	263	154°C +0/-5
ST-3810	185	150	263	182°C +1/-3
ST-3812	219	174	249	214°C +2/-2
ST-3814	233	188	263	229°C +1/-3

Marking	Cat.	Qty 1+	Qty 10+	Qty 25+
Yellow	ST-3800	\$3.50	\$3.15	\$2.75
Grey	ST-3804	\$3.50	\$3.15	\$2.75
Black	ST-3808	\$3.50	\$3.15	\$2.75
Light Green	ST-3810	\$3.50	\$3.15	\$2.75
Dark Green	ST-3812	\$3.50	\$3.15	\$2.75
Dark Blue	ST-3814	\$3.50	\$3.15	\$2.75

POLYSWITCHES

PTC Fuses - Circuit Protection

Polyswitch protectors are based on conductive polymers and act like resettable solid state circuit breakers. When the operating current of the protector is exceeded the interior of the device partially melts, which increases the volume increasing the resistance drastically. This in turn reduces the current. The device stays in this state while the current is maintained because its temperature is elevated. Once the current is removed, the device re-establishes itself almost immediately, so that the low resistance value is restored.

- Voltage ratings RN3460/62 - 60V; the rest are 50V.



Cat.	Industry Part No	Trip Watts 4Ω	6Ω	8Ω	Trip Current Amps
RN-3460	RXE075	5.1	7.7	10.2	1.50
RN-3462	RXE090	7.3	10.9	14.6	1.8
RN-3464	RXE110	10.9	16.3	21.8	2.2
RN-3466	RXE160	23.0	34.6	46.1	3.2
RN-3468	RXE185	31.4	47.0	62.7	3.7
RN-3470	RXE250	56.3	84.4	112.5	5.0

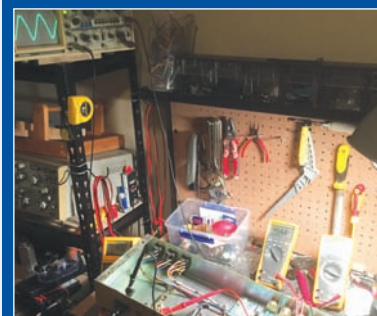
Industry No.	Cat	Qty 1+	Qty 10+	Qty 25+
RXE075	RN-3460	\$2.95	\$2.60	\$2.30
RXE090	RN-3462	\$3.25	\$2.90	\$2.60
RXE110	RN-3464	\$3.50	\$3.15	\$2.75
RXE160	RN-3466	\$3.95	\$3.45	\$3.15
RXE185	RN-3468	\$3.95	\$3.45	\$3.15
RXE250	RN-3470	\$4.50	\$3.95	\$3.60

Workbench sent to us by: Tom Jaycar Store: Gore Hill

My bench, with a repaired and modified valve guitar amplifier.

Photo taken as I'm checking bias and peak output wattage.

For more details, visit: www.jaycar.com.au/workbench



RELATED PRODUCTS

FROM \$7.95
NM-2014



THERMAL GLUE

P171

FROM \$12.95
NM-2790



HEATSINK TAPE

P171

FROM \$7.95
NM-2018



HEATSINK COMPOUND

P171

FROM \$36.95
YX-2522



80MM FAN

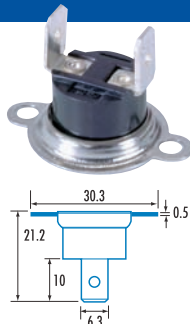
P168

THERMOSTAT SWITCHES

AUTOMATIC RESETTING BI-METALLIC DISC, SNAP ACTING
This phenolic-housed unit attaches to any metal surface.

- Normally closed or normally open available

Specifications	All
Operating tolerance	+/- 5°C (32VDC), +/- 8°C (125VAC), +/- 10°C (250VAC)
Reset differential	10°C - 50°C
Contact endurance	32VDC - 100mA - 50,000 cycles
Cycles	125VAC - 10A - 100,000 cycles
Cycles	250VAC - 6A - 30,000 cycles
Interrupt capacity	125VAC x 60A - 5 cycles
Overshoot temperature	200°C/5 minutes
Dielectric strength	1500VAC 1 minute
Reset type	Auto Reset



NORMALLY CLOSED

When the surface meets or exceeds a certain temperature, the SPST bi-metallic element goes open circuit.

- The unit resets automatically when temperature falls below specified limit.
- Ideal for any electrical item that needs thermal protection.

Opening Temp (°C)	Reclosing Temp (approx) (°C)	Cat.	Qty 1+	Qty 10+	Qty 25+
60	40	ST-3821	\$5.75	\$4.95	\$4.60
70	58	ST-3823	\$5.75	\$4.95	\$4.60
90	75	ST-3825	\$5.75	\$4.95	\$4.60
100	85	ST-3826	\$5.75	\$4.95	\$4.60

NORMALLY OPEN

These thermostat switches have normally open contacts. They operate once the temperature reaches a specified limit and automatically reset to their original normally open state once the temperature drops below its rated temperature. These are suitable for power amplifier applications and other temperature sensitive devices where a cooling fan needs to be integrated to cool the device down. Mounting holes are provided, ideal for attachment to a heatsink or any metallic surface.

Thermostat (°C)	Cat.	Qty 1+	Qty 10+	Qty 25+
50	ST-3831	\$5.75	\$4.95	\$4.60
70	ST-3833	\$5.75	\$4.95	\$4.60
100	ST-3836	\$5.75	\$4.95	\$4.60

CIRCUIT BREAKERS

Chassis Mount Auto Circuit Breakers

Single pole thermal circuit breaker. Auto reset.
• 12 and 24VDC in current ratings from 20 - 50A.



See page 251 for our range of high current AC & DC Circuit Breakers

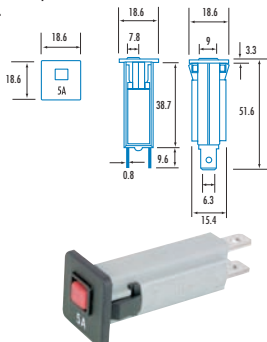
Amp	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF-4100	\$7.95	\$6.95	\$6.25
30A	12VDC	SF-4102	\$7.95	\$6.95	\$6.25
40A	12VDC	SF-4104	\$7.95	\$6.95	\$6.25
50A	12VDC	SF-4106	\$7.95	\$6.95	\$6.25
20A	24VDC	SF-4108	\$7.95	\$6.95	\$6.25

Panel Mount Thermal Circuit Breakers (CBE)

IEC 934 TYPE "R/TO"

These attractive looking units feature a black 19mm square facade with a centrally mounted bright red 'trip' button.

- When tripped, the red button extends
- To reset simply push button back in (once fault has been cleared)
- Slow response time ideal for inductive/reactive loads



Specifications	All
Hold current	100% load indefinitely
Trip current	Within 1 hour @ 135% load Within 1 min. @ 200% load
Input	32VDC, 125VAC & 250VAC
Dielectric strength	1500VAC 1 Minute
Contact endurance	>500 cycles @ 150% of contact rating.

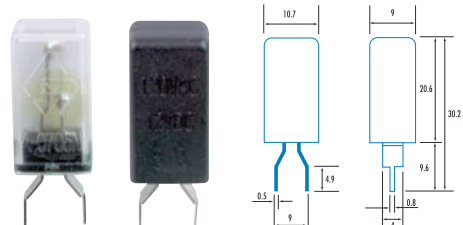
Amp	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
3	0.16	SF-2293	\$8.95	\$7.95	\$6.95
5	0.12	SF-2295	\$8.95	\$7.95	\$6.95
7	0.075	SF-2297	\$8.95	\$7.95	\$6.95
10	0.015	SF-2300	\$8.95	\$7.95	\$6.95
15	0.008	SF-2315	\$8.95	\$7.95	\$6.95

PCB Mount Thermal Circuit Breakers (SPST)

Miniature auto-resetting thermal type units that solder directly into a PCB.

- Ideal for protecting power supplies, amplifier output transistors, appliances etc.
- Slow response time is ideal when capricious tripping would be a nuisance.
- Judicious selection of breaker rating will ensure protection without unnecessary tripping

Specifications	All
Calibration	100% rated; will not trip. (all at 25°C) 101-170% increasing likelihood of trip / 175-199% trip within 1 hour. 200% within 1 minute / 200% + from 1 minute to seconds.
Input	12VDC, 125VAC
Dielectric strength	1500VAC 1 Minute
Contact endurance	>1000 cycles, @ 150% of contact rating.



Amp	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
1.5	0.12	SF-2281	\$6.95	\$6.25	\$5.50
3	0.075	SF-2283	\$6.95	\$6.25	\$5.50
4	0.050	SF-2284	\$6.95	\$6.25	\$5.50
5	0.050	SF-2285	\$6.95	\$6.25	\$5.50

Electrical Type Circuit Breaker

These circuit breakers are rated at 250VAC.

- Maximum voltage 250VAC or 50VDC
- Will hold 100% of rated current indefinitely at 25°C
- Derate at higher temperatures
- Manual push reset
- Insulation resistance >100MΩ
- Mounting hole diameter 12mm
- Size 46(H including terminals) x 35.7(D) x 14.6(W)mm

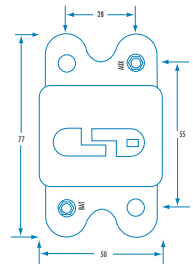


Temp °C	Typical Derating Factors		% of Rating	Time to Trip
	10-25A	2-5A		
60	0.50	-	100	Indefinite
50	0.60	-	150	< 1 hour
40	0.72	0.45	200	4.0-30.0 sec
30	0.85	0.70	300	2.5-11.0 sec
25	1.00	1.00	400	1.6-7.0 sec
20	1.10	1.20	500	0.8-2.5 sec
10	1.25	1.45	600	0.6-1.7 sec

Amp	Approval	Cat.	Qty 1+	Qty 10+	Qty 25+
3	CS8389N	SF-2252	\$8.85	\$7.75	\$6.95
5	CS8389N	SF-2254	\$8.85	\$7.75	\$6.95
10	CS8389N	SF-2258	\$8.85	\$7.75	\$6.95
15	CS8389N	SF-2259	\$8.85	\$7.75	\$6.95
20	CS8389N	SF-2260	\$8.85	\$7.75	\$6.95
25	CS8389N	SF-2261	\$8.85	\$7.75	\$6.95

High Current DC Circuit Breakers

Moulded in black electrical grade bakelite, these rugged and reliable devices allow you to simply reset rather than find another expensive fuse. They offer lower voltage drop than a fuse and can be used as an occasional circuit isolation switch. Two popular current ratings. Both units have the same physical dimensions. Ideal for car sound installations. Operating voltage is 12 to 14VDC. Each device will trip within a few milliseconds under short circuit conditions and feature protective rubber caps, test button and gold plated 5mm dia. terminals.



70A 12-14VDC

Will trip within 1 minute at 90A load. Will trip within a few milliseconds under short circuit conditions. Supplied with 5mm dia gold plated terminals with captive shakeproof washer and provision for up to 1/4" mounting bolts. Protective rubber caps for terminals. Test button on top of unit enables circuit breaker to be used as switch circuit restored with simple lever action.



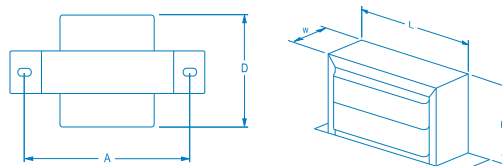
100A 12-14VDC

Will trip at 110A or immediately under short circuit conditions

Rating (A)	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
70	0.12	SF-2265	\$26.95	\$23.95	\$21.35
100	0.075	SF-2266	\$26.95	\$23.95	\$21.35

QUICK REFERENCE TRANSFORMER SELECTION

Our range of transformers have not changed much over the years. We have two major categories Power EI Core and Power Toroidals. This year we have added comparison tables for each of these ranges, with key technical specifications for easy reference and selection.



Power EI Core

Type	VA	Primary		Secondary				Connection		Dimensions (mm)					Weight (kg)	Cat No.	Page No.
		Voltage (V)	Internal Thermal Fuse	Voltage (V)	Current (mA, A)	Winding	Regulation (%)	Primary	Secondary	A	D	L	W	H			
2840	1.35	240	Yes	9, 4.5	150mA	Centre Tapped	9	Fly Leads	Fly Leads	45	32	37	16	32	0.120	MM-2017	174
2854	3.6	240	Yes	24, 12	150mA	Centre Tapped	12	Fly Leads	Fly Leads	53	41	43	22	36	0.230	MM-2018	174
2851	1.9	240	Yes	12.6, 6.3	150mA	Centre Tapped	8	Fly Leads	Fly Leads	46	32	37	16	32	0.112	MM-2006	175
2855	4.5	240	Yes	30, 15	150mA	Centre Tapped	8	Fly Leads	Fly Leads	53	44	43	28	36	0.280	MM-2007	175
2853	7	240	Yes	12.6, 6.3	500mA	Centre Tapped	10	Fly Leads	Fly Leads	61	38	51	20	43	0.310	MM-2013	175
2155	15	240	Yes	15, 12.6, 9.5, 8.5, 7.5, 6.3	1A	Multi-Tapped	10	Fly Leads	Solder Lugs	72	52	59	32	51	0.665	MM-2002	175
6672	30	240	Yes	30, 27.5, 24, 20, 17.5, 15	1A	Multi-Tapped	11	Fly Leads	Solder Lugs	85	62	69	35	59	0.924	MM-2008	175
2165	60	240	Yes	30, 24, 21, 18, 15, 12, 9	2A	Multi-Tapped	8	Fly Leads	Solder Lugs	85	65	69	35	59	0.995	MM-2005	175
2154	18	240	Yes	18, 15, 12	1A	Multi-Tapped	8	Fly Leads	Solder Lugs	72	56	59	32	51	0.650	MM-2011	176
2167L	60	240	Yes	12, 9 (x2)	2.5A (x2)	Multi-Tapped/Dual	10	Fly Leads	Solder Lugs	82	76	69	48	59	1.30	MM-2014	176
2156	30	240	Yes	15, 12, 9, 6	2A	Multi-Tapped	10	Fly Leads	Solder Lugs	82	60	69	35	59	0.92	MM-2004	176
2158	72	240	Yes	24	3A	Single	9	Fly Leads	Fly Leads	82	76	69	48	59	1.30	MM-2012	176
2170	100	240	Yes	15, 12 (x2)	3A (x2)	Multi-Tapped/Dual	7	Fly Leads	Solder Lugs	91	76	80	44	68	1.60	MM-2015	176

Note: All EI Core Transformer Fly Leads 200mm

Power Toroidals

VA	Primary		Secondary				Connection		Dimensions (mm)			Weight (kg)	Cat No.	Page No.
	Voltage (V)	Internal Thermal Fuse	Voltage (V)	Current (mA, A)	Winding	Regulation (%)	Primary	Secondary	OD	ID	H			
20	240	Yes	9 (x2)	1.11A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	MT-2082	177
20	240	Yes	12 (x2)	0.83A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	MT-2084	177
20	240	Yes	15 (x2)	0.66A (x2)	Dual	15	Fly Leads	Fly Leads	75	27	32	0.51	MT-2086	177
160	240	Yes	12 (x2)	6.66A (x2)	Dual	10	Fly Leads	Fly Leads	110	34	44	1.80	MT-2112	177

Note 1: All Toroidal Transformer Fly Leads 150mm.

Note 2: The secondary windings can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

A NOTE REGARDING POWER TRANSFORMERS

In the early days of electricity (mid-late nineteenth century) when Thomas Edison was credited with the invention of the light bulb, he felt that DC (direct current) was the way to go to distribute power around the country. An employee, Nikola Tesla, however, disagreed. He realised, for good technical reasons that AC was technically superior. One of the main reasons for this, is that you cannot use a transformer to convert one DC voltage to another. This is easily done, of course, with a transformer for AC.

The transformer has now been with us for almost 150 years and is one of the most useful electrical components ever invented. Thank you Mr. Tesla for prevailing.

Jaycar proudly carries an extensive range of these humble but essential products.

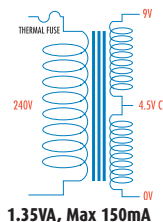
TRANSFORMERS

9V, 1.35VA, 150mA Centre Tapped

TYPE 2840



Specifications			
Type	2840	Temp rise above ambient at rated power	60°C
Secondary winding (s)	Centre Tapped	Regulation	9%
Primary voltage	240VAC	Weight	120g
Total VA rating	1.35VA	Primary connection	200mm Fly leads
Secondary voltages	9V, 4.5V (CT)	Secondary connection	200mm Fly leads
Secondary current (max)	150mA	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	30mA	Dimensions (mm)	A45 D32 L37 W16 H32



1.35VA, Max 150mA

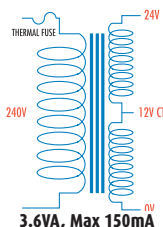


	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2017	\$7.95	\$6.95	\$6.25

24V, 3.6VA, 150mA Centre Tapped

TYPE 2854

Specifications			
Type	2854	Temp rise above ambient at rated power	65°C
Secondary winding (s)	Centre Tapped	Regulation	12%
Primary voltage	240VAC	Weight	230g
Total VA rating	3.6VA	Primary connection	200mm Fly leads
Secondary voltages	24V, 12V (CT)	Secondary connection	200mm Fly leads
Secondary current (max)	150mA	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	40mA	Dimensions (mm)	A53 D41 L43 W22 H36



3.6VA, Max 150mA



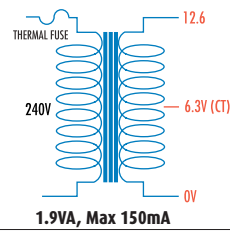
	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2018	\$8.95	\$7.95	\$6.95

TRANSFORMERS (CONTINUED)

12.6V CT, 1.9VA, 150mA Centre Tapped

TYPE 2851

Specifications			
Type	2851	Temp rise above ambient at rated power	40°C
Secondary winding (s)	Centre Tapped	Regulation	8%
Primary voltage	240VAC	Weight	112g
Total VA rating	1.9VA	Primary connection	200mm Fly leads
Secondary voltages	12.6V, 6.3V(CT)	Secondary connection	200mm Fly leads
Secondary current (max)	150mA	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	15mA	Dimensions (mm)	A46 D32 L37 W16 H32

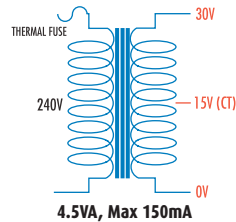


↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2006	\$7.95	\$6.95	\$6.25

30V CT, 4.5VA, 150mA Centre Tapped

TYPE 2855

Specifications			
Type	2855	Temp rise above ambient at rated power	40°C
Secondary winding (s)	Centre Tapped	Regulation	8%
Primary voltage	240VAC	Weight	280g
Total VA rating	4.5VA	Primary connection	200mm Fly leads
Secondary voltages	30V, 15V(CT)	Secondary connection	200mm Fly leads
Secondary current (max)	150mA	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	40mA	Dimensions (mm)	A53 D44 L43 W28 H36

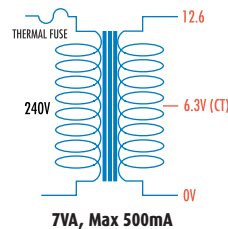


↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2007	\$8.95	\$7.95	\$6.95

12.6V CT, 7VA, 500mA Centre Tapped

TYPE 2853

Specifications			
Type	2853	Temp rise above ambient at rated power	40°C
Secondary winding (s)	Centre Tapped	Regulation	10%
Primary voltage	240VAC	Weight	310g
Total VA rating	7VA	Primary connection	200mm Fly leads
Secondary voltages	12.6V, 6.3V(CT)	Secondary connection	200mm Fly leads
Secondary current (max)	500mA	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	40mA	Dimensions (mm)	A61 D38 L51 W20 H43

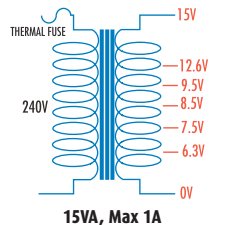


↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2013	\$9.95	\$8.75	\$7.75

6.3 - 15V, 15VA, 1A Multi-Tapped

TYPE 2155

Specifications			
Type	2155	Temp rise above ambient at rated power	45°C
Secondary winding (s)	Multi-Tapped	Regulation	10%
Primary voltage	240VAC	Weight	665g
Total VA rating	15VA	Primary connection	200mm Fly leads
Secondary voltages	15V, 12.6V, 9.5V, 8.5V, 7.5V(CT), 6.3V(CT)	Secondary connection	Solder lugs
Secondary current (max)	1A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	30mA	Dimensions (mm)	A72 D52 L59 W32 H51

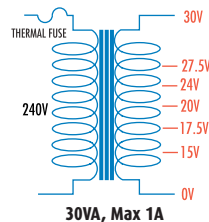


↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2002	\$11.95	\$10.70	\$9.50

15 - 30V, 30VA, 1A Multi-Tapped

TYPE 6672

Specifications			
Type	6672	Temp rise above ambient at rated power	60°C
Secondary winding (s)	Multi-Tapped	Regulation	11%
Primary voltage	240VAC	Weight	924g
Total VA rating	30VA	Primary connection	200mm Fly leads
Secondary voltages	30V, 27.5V, 24V, 20V, 17.5V, 15V(CT)	Secondary connection	Solder lugs
Secondary current (max)	1A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	40mA	Dimensions (mm)	A85 D62 L69 W35 H59

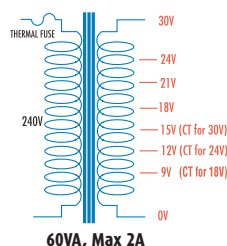


↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2008	\$18.95	\$16.95	\$14.95

9 - 30V, 60VA, 2A Multi-Tapped

TYPE 2165

Specifications			
Type	2165	Temp rise above ambient at rated power	60°C
Secondary winding (s)	Multi-Tapped	Regulation	8%
Primary voltage	240VAC	Weight	955g
Total VA rating	60VA	Primary connection	200mm Fly leads
Secondary voltages	30V, 24V, 21V, 18V, 15V(CT), 12V(CT), 9V(CT)	Secondary connection	Solder lugs
Secondary current (max)	2A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	60mA	Dimensions (mm)	A85 D65 L69 W35 H59



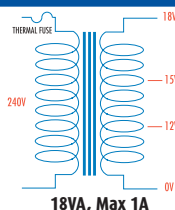
NOTE: Made from special high grade silicon steel for compact dimensions

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2005	\$27.95	\$24.95	\$22.35

TRANSFORMERS (CONTINUED)

12V - 18V, 18VA, 1A Multi-Tapped Type 2154

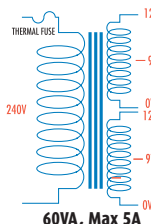
Specifications			
Type	2154	Temp rise above ambient at rated power	60°C
Secondary winding (s)	Multi-Tapped	Regulation	8%
Primary voltage	240VAC	Weight	650g
Total VA rating	18VA	Primary connection	200mm Fly leads
Secondary voltages	18V, 15V, 12V	Secondary connection	Solder lugs
Secondary current (max)	1A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	40mA	Dimensions (mm)	A72 D56 L59 W32 H51



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2011	\$11.95	\$10.70	\$9.50

9V - 24V, 60VA, 5A Multi-Tapped/Dual Type 2167L

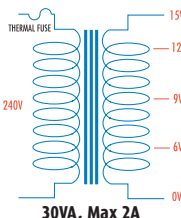
Specifications			
Type	2167L	Temp rise above ambient at rated power	65°C
Secondary winding (s)	Multi-Tapped/dual	Regulation	10%
Primary voltage	240VAC	Weight	1300g
Total VA rating	60VA	Primary connection	200mm Fly leads
Secondary voltages	12V, 9V (x2)	Secondary connection	Solder lugs
Secondary current (max)	2.5A (x2)	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	65mA	Dimensions (mm)	A82 D76 L69 W48 H59



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2014	\$27.95	\$24.95	\$22.35

6 - 15V, 30VA, 2A Multi-Tapped Type 2156

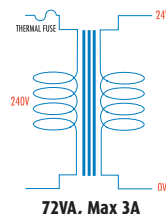
Specifications			
Type	2156	Temp rise above ambient at rated power	60°C
Secondary winding (s)	Multi-Tapped	Regulation	10%
Primary voltage	240VAC	Weight	920g
Total VA rating	30VA	Primary connection	200mm Fly leads
Secondary voltages	15V, 12V, 9V, 6V(CT)	Secondary connection	Solder lugs
Secondary current (max)	2A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	60mA	Dimensions (mm)	A82 D60 L69 W35 H59



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2004	\$18.95	\$16.95	\$14.95

24V, 72VA, 3A Single Winding Type 2158

Specifications			
Type	2158	Temp rise above ambient at rated power	65°C
Secondary winding (s)	Single	Regulation	10%
Primary voltage	240VAC	Weight	1300g
Total VA rating	72VA	Primary connection	200mm Fly leads
Secondary voltages	24V	Secondary connection	200mm Fly leads
Secondary current (max)	3A	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	60mA	Dimensions (mm)	A82 D76 L69 W48 H59

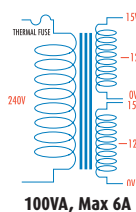


	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2012	\$27.95	\$24.95	\$22.35

12V - 30V, 100VA, 6A Multi-Tapped/Dual Type 2170

Specifications			
Type	2170	Temp rise above ambient at rated power	70°C
Secondary winding (s)	Multi-Tapped/dual	Regulation	7%
Primary voltage	240VAC	Weight	1600g
Total VA rating	100VA	Primary connection	200mm Fly leads
Secondary voltages	15V, 12V(x2)	Secondary connection	Solder lugs
Secondary current (max)	3A (x2)	Conforms to AS/NZ 61558.2.6	Yes
Magnetising current	80mA	Dimensions (mm)	A91 D76 L80 W44 H68

SOANAR



100VA, max 6A when connected in parallel.



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-2015	\$29.95	\$26.95	\$23.95

RELATED PRODUCTS

Build Your Own Coils and Transformers Book

This book is a wealth of information, ideal for hobbyist or anybody interested in winding their own transformers. After the introduction the book covers attributes of coils/transformers, mutual inductance, reactance, resonance, impedance, coil selectivity. It then goes on to the design aspects - discussing coils in tuning circuits, types of formers and cores, types of winding, self capacity, equations, coil design, design of IF transformers then output and power transformers.

- 55 pages 137 x 212 mm.



	Cat.	Qty 1+
	BM-2440	\$7.95

Pressboard Insulation Material

Similar to Presspahn Elephantide®, this product is a heavily pressed craft-type board which is used as an insulator in mains products. It can be scored, folded and formed into many shapes, particularly into boxes or partitions to isolate mains circuits from fingers. It has good abrasion resistance and is often used in areas where chafing from vibration can occur.

- Thermal Rating: 150°C
- Dielectric Strength: 12kV/mm.
- Sheet thickness: 0.8mm
- Sheet dimensions: 225(H) x 208(W)mm.



NEED PERKS
2x POINTS

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG-9985	\$4.95	\$4.45	\$3.90

TOROIDALS

WHY A TOROID?

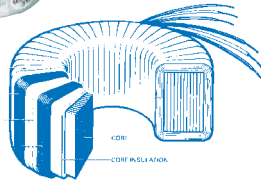
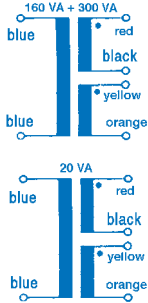
- Smaller size and weight to meet modern 'slimline' requirements
- Low electrically induced noise demanded by compact equipment
- High efficiency enabling conservative rating whilst maintaining size advantages
- Simple, quick, single bolt mounting

The Toroidal transformer is now accepted as the standard in the industry, quality made to ISO 9000 overtaking the obsolete laminated type. Industry has been quick to recognise the advantage toroidals offer in size, weight and lower radiated field. Current ratings on toroidal transformers. Can be used in 2 ways:-

- A) both secondary windings in series - double the volts
B) both secondary windings in parallel - double the amps.

Note: If connected in parallel, the windings must be connected in phase.

SOANAR



20VA LOW PROFILE • Dimensions: O/D 75, I/D 27 x 32mm

The height is only 32mm, which means they will fit into a 44mm rack case.

Cat.		Secondary Series	Secondary Parallel
MT-2082	9+9V	1.11A	2.22A
MT-2084	12+12V	0.833A	1.66A
MT-2086	15+15V	0.666A	1.333A

			Qty 1+	Qty 2+	Qty 4+
9V	20VA	MT-2082	\$29.95	\$26.95	\$23.95
12V	20VA	MT-2084	\$24.95	\$22.45	\$19.95
15V	20VA	MT-2086	\$24.95	\$22.45	\$19.95

160VA TOROIDS • Dimensions: 110 O/D x 34 I/D x 44(H)mm

Cat.		Secondary Series	Secondary Parallel
MT-2112	12+12V	6.66A	13.33A

			Qty 1+	Qty 2+	Qty 4+
12V	160VA	MT-2112	\$54.95	\$49.45	\$43.90



Workbench sent to us by: William Jaycar Store: Midland

Single and 3-phase fault boards designed and manufactured for Western Power to train their line's men single & 3-phase domestic boards

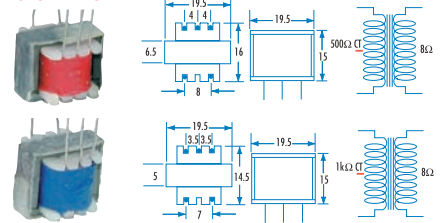
For more details, visit: www.jaycar.com.au/workbench

MINIATURE TRANSFORMERS

Miniature Transformers

MINIATURE OUTPUT TRANSFORMERS

- Primary/secondary 500 ohms ct/8 ohms
- Iron core
- 450mW rating.



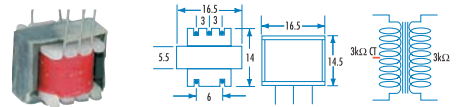
STANDARD

- Primary/secondary 1k ohm ct/8 ohms
- 350mW rating.

	Cat.	Qty 1+	Qty 2+	Qty 4+
Miniature	MM-2530	\$5.95	\$5.25	\$4.75
Standard	MM-2532	\$4.95	\$4.45	\$3.90

MINIATURE COUPLING TRANSFORMER

- 3k ohm CT//3k
- Iron core.



	Cat.	Qty 1+	Qty 2+	Qty 4+
Miniature	MM-2534	\$4.95	\$4.45	\$3.90

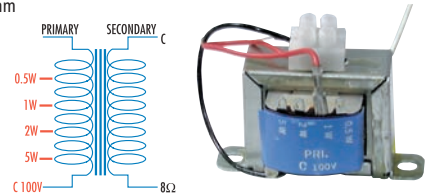
SPEAKER TRANSFORMER

5W Line Speaker Transformer

Designed to tap 100V (or 70V 1/2 power) public address amplifier lines to use an 8Ω speaker. Made with grain oriented steel for good frequency response. Good dynamic range. Primary taps enable you to select power level for 8Ω speaker. Connect primary to C (100V) and tap for whatever sound level is required from 0.5-5WRMS.

Supplied with terminal block mounted on top of transformer. Mounting hole centres 53mm

Primary	Power
20k	0.5W
10k	1W
5k	2W
2.5k	5W



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-1900	\$10.95	\$9.75	\$8.75

STROBE TRIGGER & XENON GLOBE

Miniature Strobe Trigger Transformer

Used to trigger small XENON discharge lamps.

- Dimensions: 10(L) x 7(Ø)mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
	MM-2520	\$1.95	\$1.75	\$1.55

Xenon Globe

Replacement globe.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-2693	\$12.95	\$11.35	\$10.35

RELATED PRODUCTS

FROM
\$59.95
TS-1620



SOLDERING STATIONS

P40

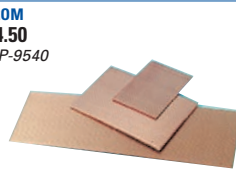
FROM
\$9.95
QM-1500



TEST EQUIPMENT

P13

FROM
\$4.50
HP-9540



PROTOTYPING BOARDS

P100

FROM
\$12.95
TH-1897



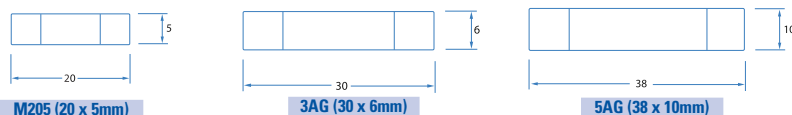
TOOLS

P48

ELECTROMECHANICAL & ENCLOSURES

CIRCUIT PROTECTION

FUSE DIMENSIONS



M205 FUSES - 20 x 5MM

M205 Fast Blow

100mA	Cat. SF-2148	1.6A	Cat. SF-2161
160mA	Cat. SF-2152	2.5A	Cat. SF-2169
200mA	Cat. SF-2153	3A	Cat. SF-2162
250mA	Cat. SF-2154	3.15A	Cat. SF-2163
315mA	Cat. SF-2155	4A	Cat. SF-2164
500mA	Cat. SF-2156	5A	Cat. SF-2166
800mA	Cat. SF-2157	6.5A	Cat. SF-2167
1A	Cat. SF-2158	10A	Cat. SF-2168
1.25A	Cat. SF-2159		
2A	Cat. SF-2160		

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$0.40	\$0.35	\$0.30

M205 Slow Blow

Slow blow M205 size glass fuses. Rated voltage 250VAC. Dimensions 20(L) x 5(Dia)mm

500mA	Cat. SF-2170	3.15A	Cat. SF-2177
1A	Cat. SF-2172	4A	Cat. SF-2175
1.5A	Cat. SF-2173	5A	Cat. SF-2178
2A	Cat. SF-2174	10A	Cat. SF-2179
3A	Cat. SF-2176		

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.25	\$1.10	\$0.97

M205 Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

1.0A	Cat. SF-2104	4.0A	Cat. SF-2108
1.6A	Cat. SF-2106	5.0A	Cat. SF-2109
2.5A	Cat. SF-2107	6.3A	Cat. SF-2110
3.15A	Cat. SF-2105	8A	Cat. SF-2112
		10A	Cat. SF-2114

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.25	\$1.10	\$0.97

M205 Ceramic Slow Blow

1.0A	Cat. SF-2115	6.3A	Cat. SF-2119
4A	Cat. SF-2118	2.5A	Cat. SF-2117
1.6A	Cat. SF-2116	8A	Cat. SF-2121

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.45	\$1.30	\$1.15

M205 Fuse Packs

40 FUSES
5 x 500mA, 10 x 1A,
10 x 2A, 5 x 3A, 5 x 5A, 5 x 10A

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SF-2242	\$12.95	\$11.35	\$10.35

5AG FUSES - 3/8" x 1 1/2"

(10 x 38mm)

- Gold plated
- Suits the gold fuse holders in the car audio section.
- Fuse size 38(L) x 10(Dia)mm.

20A	Cat. SF-1970	50A	Cat. SF-1976
30A	Cat. SF-1972	60A	Cat. SF-1978
40A	Cat. SF-1974		

Qty breaks for one type only

↑ Cat.	Qty 1+	Qty 4+	Qty 10+
All Types / Each	\$2.25	\$1.95	\$1.80

3AG FUSES - 1/4" x 1 1/4"

3AG Fast Blow (30 x 6mm)

100mA	Cat. SF-2182	4A	Cat. SF-2198
150mA	Cat. SF-2184	5A	Cat. SF-2200
250mA	Cat. SF-2186	7A	Cat. SF-2201
500mA	Cat. SF-2188	7.5A	Cat. SF-2202
630mA	Cat. SF-2189	10A	Cat. SF-2204
1A	Cat. SF-2190	15A	Cat. SF-2206
1.5A	Cat. SF-2192	20A	Cat. SF-2208
2A	Cat. SF-2194	25A	Cat. SF-2210
3A	Cat. SF-2196		

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$0.40	\$0.35	\$0.30

3AG Slow Blow

Slow blow 3AG size glass fuses. Rated voltage 250VAC. Dimensions 30(L) x 6(Dia)mm

1A	Cat. SF-2226	4A	Cat. SF-2231
1.5A	Cat. SF-2227	5A	Cat. SF-2232
2A	Cat. SF-2228	7.5A	Cat. SF-2233
3A	Cat. SF-2230	10A	Cat. SF-2234

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.25	\$1.10	\$0.97

3AG Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

7A	Cat. SF-2120		
8A	Cat. SF-2122		
10A	Cat. SF-2124		

Quantity breaks for one type only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	\$1.25	\$1.10	\$0.97

3AG Fuse Packs

40 FUSES
The economical way to buy fuses. Consists of:
4 x 500mA, 8 x 1A, 6 x 1.5A, 4 x 2A, 6 x 3A, 4 x 5A,
4 x 7.5A, 4 x 10A

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SF-2240	\$12.95	\$11.35	\$10.35

DMM FUSES

Fast Acting Cartridge Fuses

For use in multimeters. As used in multimeters. Fast acting fuse designed for use in circuits with high AC fault current capacity. Listed by Underwriters Laboratories and certified by CSA.

SF-2276 1A 600V
Dimensions: 35 x 10 mm

SF-2277 1kV 10A.
SF-2274 15A 600V
Dimensions: 38 x 10 mm

Spare ferrule fuses for our IP67 CAT IV rated DMMs:
SF-2278 1kV 500mA
SF-2279 1kV 800mA
Dimensions: 32 x 6.35mm

↑ Cat.	Qty 1+	Qty 3+	Qty 6+
SF-2276	\$8.95	\$7.95	\$6.95
SF-2279	\$9.95	\$8.75	\$7.75
SF-2278	\$9.95	\$8.75	\$7.75
SF-2274	\$17.95	\$15.95	\$14.35
SF-2277	\$14.95	\$13.35	\$11.70

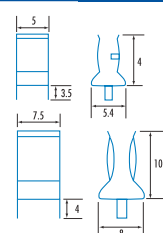
PCB MOUNT FUSE HOLDERS

Fuse Clips

- Nickel plated
- PCB mount

3AG

M205



↑ Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
M205 8	SZ-2018	\$2.75	\$2.45	\$2.15
M205 100	SZ-2019	\$18.95	\$16.95	\$14.95
3AG 8	SZ-2022	\$2.75	\$2.45	\$2.15
3AG 100	SZ-2023	\$18.95	\$16.95	\$14.95

M205 PCB Mount Fuse Holder

PCB mounting M205 fuse holder. Supplied with screw cover to hold fuse in place.

- Max Fuse: 6.3A @ 250VAC

↑ Mount	Cat.	Qty 1+	Qty 10+	Qty 25+
Vertical	SZ-2038	\$3.50	\$3.15	\$2.75
Horizontal	SZ-2039	\$3.50	\$3.15	\$2.75

INLINE FUSE HOLDERS

3AG

Plastic in-line type.

- As used on car radios, CB, etc.
- Takes 3AG fuses. • Low volt DC only • 5A max.

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SZ-2015	\$1.75	\$1.55	\$1.40

3AG Moistureproof Fuseholder

- Two rubber parts push together over the fuse to keep moisture out. Ideal for boats, cars etc.
- Cable needs to be soldered on, crimped to end parts.
- Could be made virtually waterproof with some silicone sealant.
- Low volt DC only / 10A max

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SZ-2014	\$2.50	\$2.21	\$1.95

3AG 20A High Current

If you want to fuse something higher than 5 amp you will need this holder.

- Super strong plastic holder
- Supplied with cable loop.
- Simply cut and join to existing cables.
- Low volt DC only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SZ-2016	\$3.50	\$3.15	\$2.75

5AG 60 Amp

For high-powered car sound systems.

- Accepts 5AG fuse.
- 80(L) x 19(D)mm.
- Supplied with a small length of cable, simply cut and join in line.
- Low volt DC only

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SZ-2065	\$8.95	\$8.05	\$7.15

FUSE WIRE

Fuse Wire

Includes 8 amp for lights and 15 amp for power. An essential item to carry in the fuse box of older homes. Have it there when you need it.

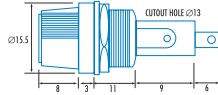
Blade Fuses are on page 482.

↑ Cat.	Qty 1+	Qty 10+	Qty 25+
SZ-2005	\$2.95	\$2.60	\$2.30

PANEL FUSE HOLDERS

M205 - Low Volt Only

- Takes M205 fuses (20 x 5mm)
- Recommended for low voltage or DC side circuits only.
- Panel hole 13mm.
- 6.3A 240V max.

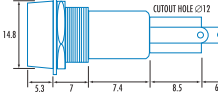


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2030	\$1.95	\$1.75	\$1.55

M205 - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object into the small rectangular hole on top of the fuseholder.

- Panel hole 12mm.
- 6.3A 240V max.

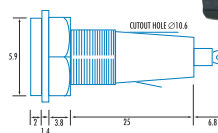


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2034	\$1.95	\$1.75	\$1.55

M205 - Very Safe

6.3A 250V.

- Panel hole 11mm.
- Fits M205 size fuses
- Screwdriver cover removal
- Fingers cannot touch metal inside

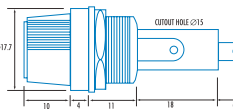


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2028	\$2.75	\$2.45	\$2.15

3AG - Low Volt Only

10A 250V.

- Accepts 3AG fuses.
- Panel hole 15mm.
- Recommended for low voltage or DC side circuits only.

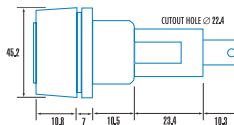


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2020	\$1.95	\$1.75	\$1.55

3AG - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object in to the small rectangular hole on top of the fuseholder.

- Panel hole 15mm.
- 10A 250V

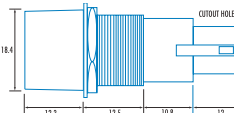


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2036	\$2.75	\$2.45	\$2.15

3AG - Very Safe

3AG 10 amp 240V chassis mount (32 x 6.35 mm)

- Screwdriver cover removal
- Fingers cannot touch metal inside
- 10A 250V

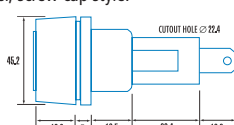


	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2025	\$2.95	\$2.60	\$2.30

5AG - Low Volt Only

Panel mounting fuse holder, screw cap style. Suits 5AG sized fuses up to 30A current rating.

- Low voltage only



	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2029	\$4.95	\$4.45	\$3.90

FUSE HOLDERS

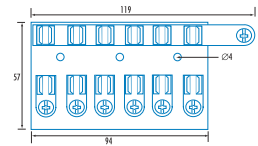
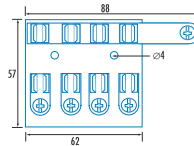
Fuse Gang Blocks

All have natural brass contacts riveted to a fibreglass filled nylon board. Both can be easily split into modules of two. Ideal for automotive, aircraft, marine or other low voltage applications.

- 4 & 6 Way with power/ earth bus.
- Accepts 3AG type fuses
- Plated screw terminals
- Can be safely screwed to a metal surface (low voltage only)
- 15A max. all models



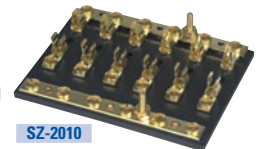
SZ-2006



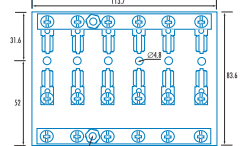
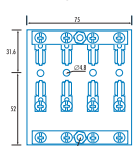
	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 way 57 x 60mm	SZ-2006	\$11.95	\$10.75	\$9.55
	6 way 57 x 90mm	SZ-2007	\$12.95	\$11.35	\$10.35

Double BusBar for 3AG Fuses

One bus connected to one side of fuse clip. This could be, say, to +12V. The other side of the clip is riveted to the board and has a brass power screw termination. You could wire to your application and return to the other busbar for say, earth. We recommend that this board is stood off from a metal bulkhead for extra electrical safety.



SZ-2010



- Accepts 3AG fuses
- 15A max. all models

	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 way 83 x 75mm	SZ-2009	\$17.95	\$15.95	\$14.35
	6 way 83 x 100mm	SZ-2010	\$19.95	\$17.95	\$15.95

Marine Grade Illuminated Switch Panels with Circuit Breakers

An economical solution to controlling multiple DC circuits on your boat, or any other application where you want to switch multiple DC circuits. Each switch panel is an attractive moulded ABS plate, with high quality 10A rated illuminated rocker switches and re-settable circuit breakers on each circuit. Power is supplied on a common rail to keep wiring neater, and wiring connections are made with standard spade terminals.

Two versions available:

4 Way - Dimensions 110(H) x 100(W) x 45(D)mm
Cat. SZ-1902

6 Way - Dimensions 160(H) x 100(W) x 45(D)mm
Cat. SZ-1903



	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 Way	SZ-1902	\$39.95	\$35.95	\$31.95
	6 Way	SZ-1903	\$49.95	\$44.95	\$39.95

IP66 Marine Switch Panels with Circuit Breakers

These units feature the attractive tactile rocker switches that are common on luxury Australian and foreign made motor cruisers. The panels have Butyl rubber gaskets and IP66 water resistant rated switches and circuit breakers, making these switch panels suitable for an exposed environment. They are pre-wired as much as possible, with wiring connections made via standard spade terminals for ease. Both require about 80mm of space behind the mounting bulkhead. The 4 way has 6, 10, 15 & 20A rated circuit breakers and the 6 way has 6, 6, 10, 10, 15 & 20A breakers, and the switches feature LED illumination to let you know which circuit is active.

- Moulded from ABS plastic, black in colour.

Two versions available:

Dimensions:
4 Way: 120(H) x 130(W)mm
6 Way: 170(H) x 130(W)mm



	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 Way	SZ-1906	\$69.95	\$62.95	\$55.95
	6 Way	SZ-1907	\$99.95	\$89.95	\$79.95

ELECTROMECHANICAL & ENCLOSURES

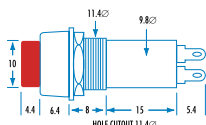
PUSHBUTTON SWITCHES

PUSHBUTTON SWITCHES

SPST Square

Rated 3A 250V AC.

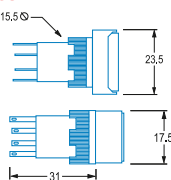
- Mounting hole 12mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
Push-on Momentary SPST Red	SP-0716	\$1.95	\$1.75	\$1.55
Push-on/Push off SPST Black (Latching)	SP-0718	\$1.95	\$1.75	\$1.55
Push-Off (N/C) SPST Momentary - Red	SP-0717	\$1.95	\$1.75	\$1.55

DPDT Illuminated - IP65

- Available in momentary or on/off action
- Rated for 250VAC 5A
- 12VDC LED illumination
- Mounting hole 15mm
- IP65 rated
- Contact arrangement DPDT N.O./N.C.

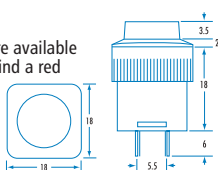


Rating	Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 5A	Momentary	Red	SP-0741	\$9.95	\$8.75	\$7.75
250VAC 5A	Push On Push Off	Red	SP-0745	\$12.95	\$11.35	\$10.35
250VAC 5A	Momentary	Green	SP-0747	\$9.95	\$8.75	\$7.75
250VAC 5A	Push On Push Off	Green	SP-0749	\$12.95	\$11.35	\$10.35

SPST LED Illuminated

These short bodied pushbuttons are available in 2 styles. Both have red LEDs behind a red diffused actuator.

- Rated at 1.5A 250VAC.
- LED needs 2VDC @ 20mA.

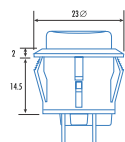


	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A Momentary	SP-0706	\$5.95	\$5.25	\$4.75
250VAC 1.5A Push On Push Off	SP-0704	\$5.95	\$5.25	\$4.75

DPDT Round - IP56

IP56 rated round 'pushbutton switches.

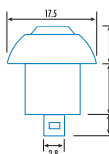
- QC spade lugs.
- Push on/push off
- Mounting hole: 20mm dia



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A DPST	Black	SP-0743	\$5.95	\$5.25	\$4.75
250VAC 6A DPST	Red Illuminated	SP-0751	\$6.95	\$6.25	\$5.50

SPST Dome - IP67

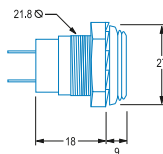
- IP67 rated
- Momentary action
- Mounting hole 12mm
- Contact arrangement SPST N.O.



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
50V 100mA SPST	Black	SP-0656	\$4.95	\$4.45	\$3.90
50V 100mA SPST	Red	SP-0657	\$4.95	\$4.45	\$3.90

SPST Round - IP65

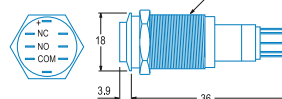
- Available in momentary or on/off action
- Rated for 14V 10A
- Mounting hole 22mm
- Contact arrangement SPST N.O.
- IP65 rated



Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 10A	Black	Momentary	SP-0756	\$6.95	\$6.25	\$5.50
12V 10A	Red	Momentary Illuminated	SP-0757	\$8.95	\$7.95	\$6.95
12V 10A	Black	Push On Push Off	SP-0758	\$6.95	\$6.25	\$5.50
12V 10A	Red	Push On Push Off Illum	SP-0759	\$8.95	\$7.95	\$6.95

DPDT Illuminated - IP67

- DPDT (N.O./N.C.), DPDT, on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm.

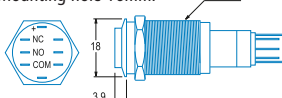


Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Red	on - off	SP-0791	\$15.95	\$14.35	\$12.70
250VAC 3A	Green	on - off	SP-0792	\$15.95	\$14.35	\$12.70
250VAC 3A	Blue	on - off	SP-0793	\$16.95	\$15.25	\$13.55
250VAC 3A	Red	Momentary	SP-0796	\$14.95	\$13.45	\$11.95
250VAC 3A	Green	Momentary	SP-0797	\$13.95	\$12.55	\$11.15
NEW 250VAC 3A	Blue	Momentary	SP-0798	\$14.95	\$13.45	\$11.95

DPDT Dual Colour Illuminated - IP67

Similar to the illuminated switches shown above, but illuminate red or green depending on the on-off state.

- DPDT (N.O./N.C.), DPDT, on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm.

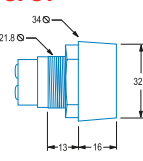


Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
Momentary	(Red to Green)	SP-0787	\$19.95	\$17.95	\$15.95
On-off	(Red to Green)	SP-0788	\$19.95	\$17.95	\$15.95

IGNITION SWITCHES

Engine Start Switch - SPST

- Keyless engine start for track or street use
- Illuminated momentary action pushbutton
- Rated for 12VDC 50A
- Mounting hole 22mm
- Contact arrangement SPST N.O.

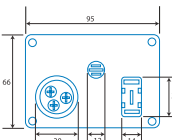


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50A SPST	SP-0773	\$19.95	\$17.95	\$15.95

Racing Ignition Switch Panel - SPST

Complete ignition switch panel ready to install in your car. Push button engine start, missile launch ignition on and indicator light. Finished in faux carbon fibre to complete the look.

- Max depth 38mm
- Contact arrangement SPST N.O. (both switches)
- 95(W) x 66(H)mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A SPST	SP-0774	\$39.95	\$35.95	\$31.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details

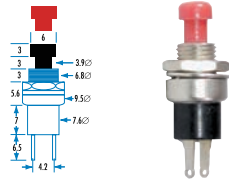


MOMENTARY SWITCHES

SPST - Miniature

125VAC 1 amp rating.
Momentary action.

- Push-on

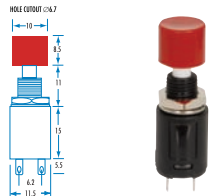


Rating	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	Red	Mom	SP-0710	\$1.65	\$1.45	\$1.30
125VAC 1A	Black	Mom	SP-0711	\$1.65	\$1.45	\$1.30

SPST

SPST momentary push on switch
Rated @ 1.5A 250VAC.
Actuator diameter 10mm.

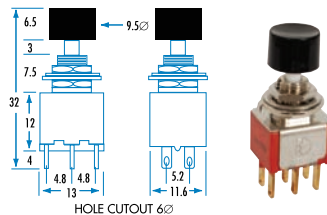
- Cutout 7mm.
- Will panel mount on 1/2" centres.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP-0702	\$3.95	\$3.45	\$3.15

DPDT

- Rated 3A 125VAC
- 6mm mounting hole.
- Momentary Action DPDT
- Black Actuator.
- The quality of the switch can be felt when actuated.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 3A	DPDT	SP-0714	\$7.95	\$6.95	\$6.25

Push Button Switch Caps

Black caps which press fit over Push Button switches with a shaft diameter of 2.54mm (0.1inch). OD: 5mm, Height: 5mm

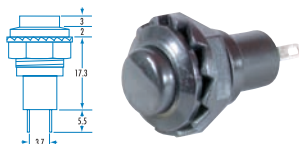


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 10	SP-0596	\$4.95	\$4.45	\$3.90

SPST Panel Mount

Very attractive small round momentary push on switch, with black body and black actuator, rated @ 1.5A 250VAC.

- Contact Arrangement SPST N.O.
- Cutout is 12.5mm.
- Solid construction

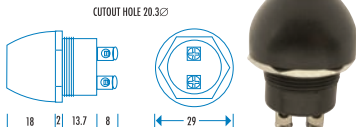


Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP-0700	\$3.95	\$3.45	\$3.15

SPST Large Waterproof Pushbutton Switch

Plastic housing with brass 5A DC contacts. Rubber cap over housing renders assembly virtually waterproof.

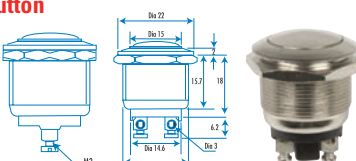
- Requires 22mm mounting hole
- Screw terminals.
- Ideal for horn button, starter motor activation, etc.
- Contact Arrangement SPST N.O.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 5A	SPST	SP-0732	\$4.95	\$4.45	\$3.90

SPST Metal Finish Pushbutton

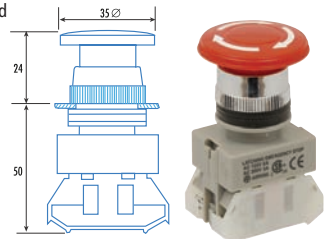
- Silver metal body
- Rated 8A @ 125VAC or 4A @ 250VAC
- Momentary action
- 19mm mounting hole
- Screw terminal termination
- Contact Arrangement SPST N.O.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 8A	SPST	SP-0755	\$5.95	\$5.25	\$4.75

Latching Emergency Stop Switch

Essential for installations of industrial or lab equipment. Latching actuator with rotating release and normally closed contacts. When the actuator is pushed in, the normally closed contacts open and the switch is latched, ensuring the equipment can't be operated until the switch is intentionally disengaged by rotating the actuator and releasing. It has two independent sets of contacts; normally open and normally closed.



Specifications	SP-0786
Configuration	2 contact sets, normally closed (RED) & normally open (GREEN)
Actuation	Push off, rotate on
Contact rating	125VAC 6A, 300VAC 3A
Mounting hole	22mm

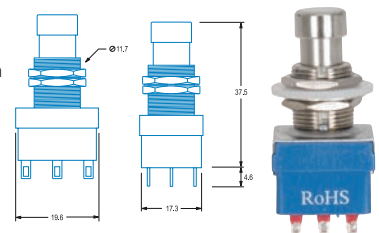
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 6A	SP-0786	\$10.95	\$9.85	\$8.75

FOOT SWITCHES

3PDT Heavy Duty Foot Switch

Being 3 pole means you can wire your stompbox projects to be true bypass. It also has a low profile body so it can be accommodated in shallow enclosures and it has a solid, positive click on/off action. Heavy duty for the rough and tumble world of rock n' roll.

- Push on - push off
- 250VAC 2A rated.
- Hole size: 12mm

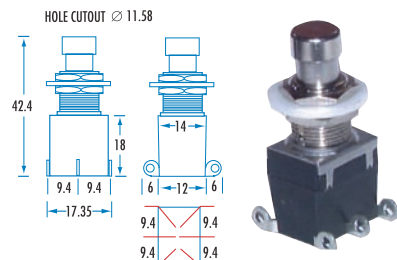


Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	3PDT	SP-0766	\$11.95	\$10.70	\$9.50

DPDT Heavy Duty Foot Switch

The alternative action switch (push on, push off).

- Contact rating with resistive load 2A@250VAC.
- Contact resistance <0.08Ω.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	DPDT	SP-0764	\$7.95	\$6.95	\$6.25

Foot Switch

This foot switch is momentary action and can be wired to be either push-on or push-off. The switch is rated at 250V 10 amp. The switch has a positive switch feel and an audible "click" when pressed. Could be used in PA applications, dictaphones etc.

- Switch size 80(W) x 80(L) x 30(D)mm.
- Colour is grey, cable is 850mm long.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP-0760	\$24.95	\$22.35	\$19.70

BELL PUSHBUTTONS

SPST Illuminated Bell Pushbutton

This door bell button has a small globe mounted behind which illuminates the pushbutton and an area where you can place your name or street number. Supplied with 12V globe, which also works on lower voltage.

- Contact Arrangement SPST N.O.
- Globe in parallel with contacts



↑	Type	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
	Pushbutton	SPST	SP-0782	\$7.95	\$6.95	\$6.25
	Spare Globe	SPST	SL-2720	\$1.95	\$1.75	\$1.55

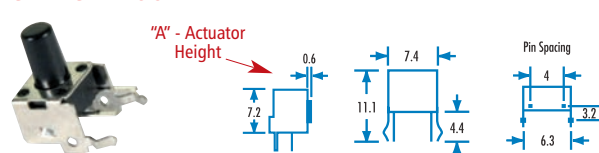
TACTILE SWITCHES

SPST Micro

VERTICAL MOUNT



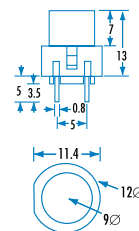
RIGHT-ANGLE VERSION



Specifications	All
Rating	12VDC 50mA
Operating Temp	-20 ~ 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ Min. at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary

Pin Spacing

SPST PCB Mount Snap Action - Round



PCB Mount, single pole, momentary. Suitable for keyboards, security systems, etc. Available in 5 colours.

- These switches are normally open SPST. When button is depressed the switch closes, but only while the button is down.
- Contact rating 10mA/35V DC. Pin spacing 5mm

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
35VDC 10mA	Red	SP-0720	\$1.45	\$1.30	\$1.15
35VDC 10mA	Black	SP-0721	\$1.45	\$1.30	\$1.15
35VDC 10mA	Yellow	SP-0722	\$1.45	\$1.30	\$1.15
35VDC 10mA	White	SP-0723	\$1.45	\$1.30	\$1.15
35VDC 10mA	Green	SP-0724	\$1.45	\$1.30	\$1.15

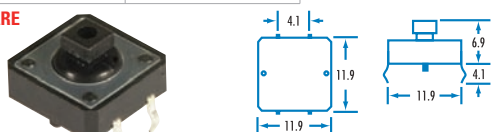
Vertical Mount	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP-0600	\$0.95	\$0.85	\$0.75
12VDC 50mA	1.4mm	SP-0601	\$0.95	\$0.85	\$0.75
12VDC 50mA	3.5mm	SP-0602	\$0.95	\$0.85	\$0.75
12VDC 50mA	6.0mm	SP-0603	\$0.95	\$0.85	\$0.75
Right Angle	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP-0604	\$1.00	\$0.90	\$0.80
12VDC 50mA	1.4mm	SP-0605	\$1.00	\$0.90	\$0.80
12VDC 50mA	3.5mm	SP-0606	\$1.00	\$0.90	\$0.80
12VDC 50mA	6.0mm	SP-0607	\$1.00	\$0.90	\$0.80

SPST PCB Mount

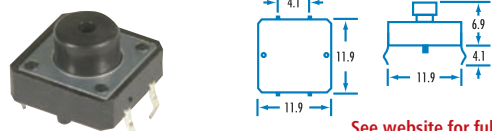
Specifications	
Rating	12VDC 50mA
Operating Temperature	20 ~ 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ Min. at 100VDC

Withstand Voltage: 250VAC for 1 minute
Contact Arrangement: SPST N.O.
Momentary action

SQUARE



ROUND

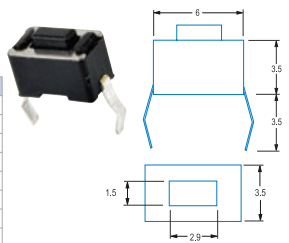


See website for full data sheet

Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Square	SP-0608	\$1.25	\$1.10	\$0.97
12VDC 50mA	Round	SP-0609	\$1.25	\$1.10	\$0.97

SPST PCB - 2 Pin

Specifications	SP-0611
Rating	12VDC 50mA
Operating Temperature	-16 ~ 60°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	2 pin SPST N.O.
Action	Momentary
Size	6 x 3.5 x 3.5mm



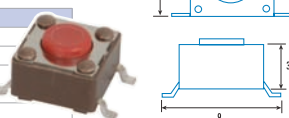
Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	PCB Mount	SP-0611	\$0.95	\$0.85	\$0.75

SPST SMD - Pack of 10

This switch is similar to SP-0600 but surface mount.



Specifications	SP-0610
Size	6x6mm
Height	3.85mm
Contact Arrangement	SPST N.O.
Contact Rating	50mA, 12VDC
Contact Resistance	100mΩ max

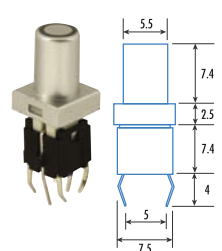


Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Pkt 10	SP-0610	\$13.95	\$12.35	\$10.95

SPST PCB Mount with LED

- Vertical
- Metallic look

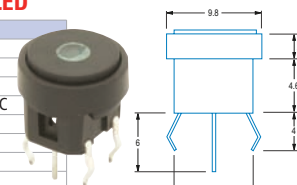
Specifications	All
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70° C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4V DC @ 25mA



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP-0612	\$4.45	\$3.95	\$3.45
12VDC 50mA	Green	SP-0613	\$4.45	\$3.95	\$3.45
12VDC 50mA	Blue	SP-0614	\$4.45	\$3.95	\$3.45

SPST PCB Mount - Vertical with LED

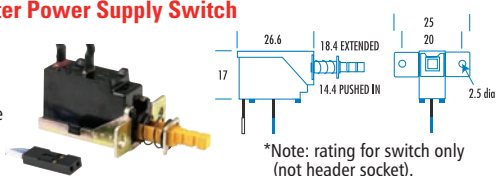
Specifications	
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70° C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4V DC @ 25mA



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP-0620	\$3.95	\$3.45	\$3.15
12VDC 50mA	Green	SP-0621	\$3.95	\$3.45	\$3.15
12VDC 50mA	Blue	SP-0622	\$3.95	\$3.45	\$3.15

ATX Computer Power Supply Switch

Replacement Power Switch. 250VAC 10A*. Complete with connecting cable & 2 pin plug.



*Note: rating for switch only (not header socket).

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP-0748	\$14.95	\$13.35	\$11.70

BEDLAMP SWITCH

Bedlamp Switch - SPST

- Panel hole 10mm
- 250VAC 50Hz
- Rated current 2A (Resistance) 1A (Tungsten Filament)
- Cutout 16(dia.)mm
- Single pole - single throw

Sorry! we've tried to find a DPST version of this switch but it just does not seem to be available.



Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 2A	SPST	SP-0736	\$1.95	\$1.75	\$1.55

TOGGLE SWITCHES

General Specifications:	Sub Miniature	Miniature
Electrical life (make - and - break cycles at full load)	30,000	40,000
Contact resistance (@2 - 4VDC @ 100mA)	20MΩ	10MΩ
Insulation resistance (any contact to body)	1,000MΩ	1,000MΩ
Dielectric strength (@ sea level)	1,000VRMS	1,000VRMS
Contact rating (with resistive load)	1A @ 250VAC	2A @ 250VAC
Contact rating (with resistive load)	3A @ 28VDC	5A @ 28VDC

Sub-Miniature

SPDT - SOLDER TAG - THREADED BUSH

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0300	\$2.95	\$2.60	\$2.30

SPDT - HORIZONTAL PCB MOUNT

Momentary on when depressed.

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on-mom)	SP-0380	\$3.95	\$3.45	\$3.15

DPDT - SOLDER TAG - THREADED BUSH

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST-0310	\$2.95	\$2.60	\$2.30

Miniature

SPDT - SOLDER TAG WITH THREADED BUSH

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0335	\$2.95	\$2.60	\$2.30
SPDT Centre Off (on-off-on)	ST-0336	\$3.45	\$3.05	\$2.75

DPDT - SOLDER TAG WITH THREADED BUSH

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST-0355	\$3.75	\$3.30	\$2.95
DPDT Centre Off (on - off - on)	ST-0356	\$4.50	\$3.95	\$3.60
DPDT Mom Centre Off (mom-off-mom)	ST-0358	\$4.95	\$4.45	\$3.90
DPDT Mom (on - mom)	ST-0357	\$4.50	\$3.95	\$3.60

DPDT - HORIZONTAL PCB MOUNT

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT Threaded Bush (on - on)	ST-0365	\$4.95	\$4.45	\$3.90

Miniature (continued)

3PDT MINI

Hole cutout 6mm

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
3PDT (on - on)	ST-0505	\$7.95	\$6.95	\$6.25

4PDT MINI

Hole cutout 6mm

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
4PDT (on - on)	ST-0506	\$8.95	\$7.95	\$6.95

Sealed Miniature

Ideal for use in wet or moist areas.
Rated at 2A, 250VAC.
Splash post IP54 rated.

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0554	\$6.95	\$6.25	\$5.50
DPDT (on - on)	ST-0555	\$7.95	\$6.95	\$6.25

Miniature Flattened Actuator

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0546	\$5.50	\$4.90	\$4.30
DPDT (on - on)	ST-0547	\$5.95	\$5.25	\$4.75

Rubber Boot with Seal to Suit Mini Toggles

This waterproof hood replaces the standard mounting nut and has an integrated 'O' ring to seal your equipment from outside moisture.
• Suits our mini toggle switches
• True waterproof seal

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
Waterproof seal	ST-0594	\$1.85	\$1.65	\$1.45

Standard Panel Mount Toggle Switches

SPST

Body size 26 x 14mm,
clearance 20.5mm,

- Mounting hole 12mm.
- Rated 2A 250V.
- Solder terminals

Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A (on - off)	ST-0570	\$2.65	\$2.30	\$2.07

DPDT

- Body size 29.5 x 18mm
- Clearance 23mm
- Mounting hole 12mm
- Rated 3A 250V
- Solder terminals

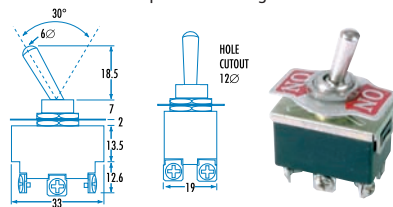
Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A (on - off)	ST-0572	\$2.95	\$2.60	\$2.30

TOGGLE SWITCHES (CONTINUED)

DPDT - Extra Heavy Duty

Rated at 6A 250VAC, this switch will handle mains power switching.

- Screw terminals
- 12mm mounting hole.

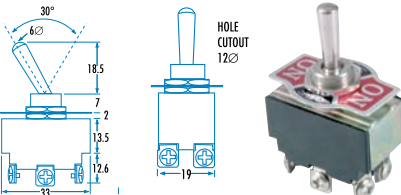


↑	Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
	250VAC 6A (on - on) DPDT	ST-0575	\$4.95	\$4.45	\$3.90

DPDT - Heavy Duty Centre Off

Huge 10A 125V rating, chrome toggle with on/off indicator plate.

- DPDT centre off.
- Body size 35 x 20mm, clearance 26mm, mounting hole 12mm.
- Screw terminals. Same physical size as ST-0575 above.

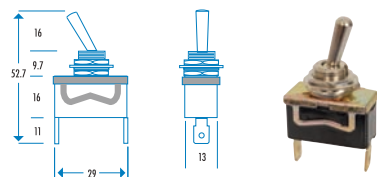


↑	Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
	125VAC 10A (on - off - on) DPDT	ST-0576	\$4.95	\$4.45	\$3.90

SPST

Ideal for any high current 12VDC switching application. Our ST-0578 Missile Switch Cover is perfectly suited to this switch.

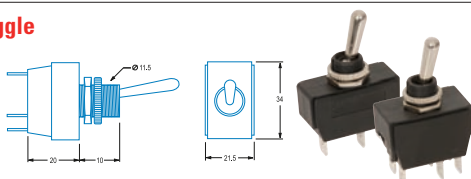
- Body size 29.5 x 17mm
- Mounting hole 12mm
- Rated 20A 12VDC



↑	Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC 20A Momentary (off - mom)	ST-0577	\$6.50	\$5.75	\$4.95
	12VDC 20A Toggle (on - off)	ST-0579	\$5.95	\$5.25	\$4.75

Heavy Duty Toggle

- Mounting hole 11.5mm
- UL61058 rating: 12(4)A 250VAC
- ST-0586 is Centre-Off.

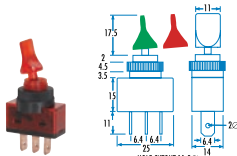


↑	12VDC	277VAC	Cat.	Qty 1+	Qty 10+	Qty 25+	
	20A	20A	SPST	ST-0581	\$4.95	\$4.45	\$3.90
	20A	20A	SPDT	ST-0583	\$5.45	\$4.90	\$4.30
	20A	16A	DPDT	ST-0585	\$7.95	\$6.95	\$6.25
	20A	16A	DPDT - C/Off	ST-0586	\$7.95	\$6.95	\$6.25

12V SPST Illuminated Duckbill Actuator

Actuator illuminates when switch is on.

- Two colours available.
- Rated at 12VDC 10A SPST.
- QC tab termination 6.8mm (PT-4507)



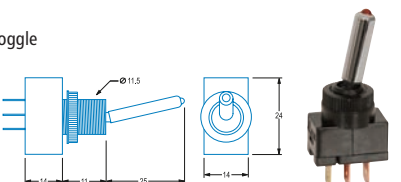
MOLE CORDSET 11-510

↑	Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC 10A Red (on - off) SPST	ST-0580	\$3.95	\$3.45	\$3.15
	12VDC 10A Green (on - off) SPST	ST-0582	\$3.95	\$3.45	\$3.15

12V SPST Illuminated

Illuminated by an LED in the toggle for easy identification.

- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 11.5mm

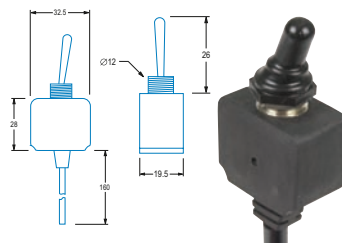


↑	12VDC 20A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
			ST-0587	\$5.95	\$5.35	\$4.75

SPST 24V 15A Sealed Toggle

This large toggle switch is specially designed for marine conditions. A weatherproof rubber boot covers the actuator, and the switch mechanism is encapsulated in rubber. For this reason, 150mm fly leads are attached instead of the usual terminals. Not only limited to marine use, it can also be used as an ultra-durable switch in many applications.

- Ideal for marine or automotive use
- Max volt rating: 24V @ 15 amps



↑	24VDC 15A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
			ST-0574	\$12.95	\$11.35	\$10.35

Missile Switch Protective Cover

Military style missile switch cover featuring a heavy duty hinged, spring return protective cover. Covers turn switch off when snapped down. Fit any toggle switch with a 12mm mounting hole and appropriate length actuator.

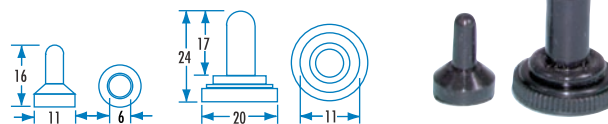
SWITCH (Cat. ST-0579) SHOWN MOUNTED IN MISSILE COVER (switch not included).

WHEN COVER IS DOWN, ACTUATOR CANNOT MOVE



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	ST-0578	\$6.95	\$6.25	\$5.50
Carbon Fibre Style	ST-0584	\$9.95	\$8.95	\$7.95

Splashproof Hoods For Toggle Switches



These hoods simply screw over the toggle switch to deter ingress of water.

MINIATURE - INCLUDES NUTS FOR BOTH MINI & ULTRA-MINI TOGGLE SWITCHES.

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0590	\$1.85	\$1.65	\$1.45

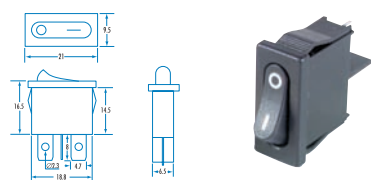
STANDARD (LARGE)

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0592	\$2.85	\$2.53	\$2.23

ROCKER SWITCHES

SPST - Ultra Mini

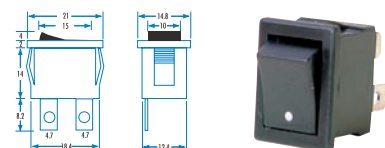
- Snap in fitting.
- SPST 250VAC 6A.
- Cutout size 6.5(W) x 19(H)mm.
- Black body, black actuator.
- QC tab termination 6.4mm (PT-4607)



↑	250VAC 6A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
			SK-0975	\$1.95	\$1.75	\$1.55

SPST - Mini

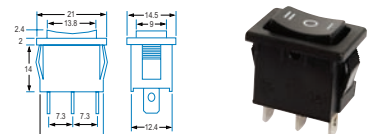
- Dimensions: 21 x 15mm
- Panel cut out size 13 x 19.5mm
- QC tab termination
- SPST 240V 6A
- Black actuator



↑	240VAC 6A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
			SK-0984	\$1.95	\$1.75	\$1.55

SPDT - Centre Off

- Latching
- Voltage: 250VAC
- Current: 6 Amp



↑	250VAC 6A	SPDT	Cat.	Qty 1+	Qty 10+	Qty 25+
			SK-0991	\$4.95	\$4.45	\$3.90

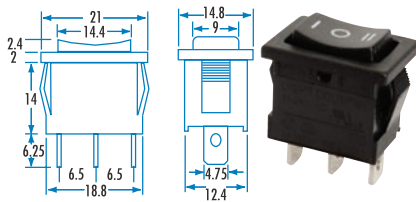
ROCKER SWITCHES (CONTINUED)

SPDT - Mini - Centre Off

SPRING RETURN BOTH SIDES

Momentary contacts with spring return to centre on both sides.

- Mini QC tab termination 6.4mm (PT-4607)
- Contact arrangement SPDT N.O.

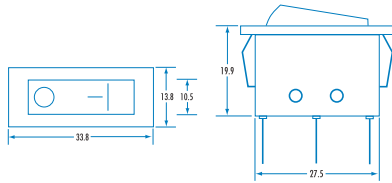


Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250V 6A	SPDT	SK-0987	\$4.95	\$4.45	\$3.90

SPST - Illuminated

Black body with illuminated actuator. Ideal replacements for appliances.

- Snap in fitting.
- QC tab termination 6.8mm (PT-4507)
- Cutout: 33.8 x 13.8mm



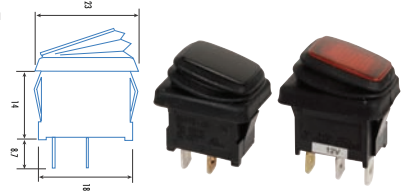
Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	Blue	SK-0976	\$3.50	\$3.15	\$2.75
240VAC 15A	Red	SK-0978	\$3.50	\$3.15	\$2.75
240VAC 15A	Green	SK-0979	\$3.50	\$3.15	\$2.75

SPST IP56 Rated Mini Rocker Switch

SPST mini rocker switches with spade QC lugs. Sealed with a rubber boot and IP56 rated.

Two types available:

- Black: SK-0968
- Red (illuminated): SK-0969
- Cutout: 18.8 x 12.5mm

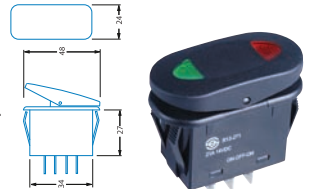


Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	Black	SK-0968	\$5.75	\$4.95	\$4.60
12VDC 16A	Red - Illuminated	SK-0969	\$6.75	\$5.95	\$5.25

SPDT IP65 Illuminated Centre Off Rocker Switch

IP65 rated, illuminated switch for automotive and marine applications. Illuminates one side red and one side green.

- On-Off-On
- Rating: 14VDC, 21A
- Cutout size: 34 x 21mm

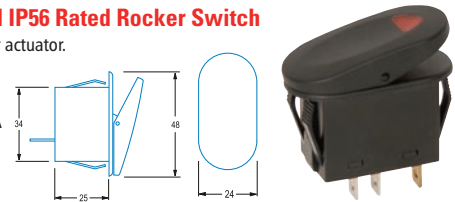


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
14VDC 21A SPDT	SK-0999	\$12.95	\$11.35	\$10.35

SPST Illuminated IP56 Rated Rocker Switch

IP56 rated, large rocker actuator.

- SPST
- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 20.5 x 37mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Red Illuminated	SK-0997	\$12.95	\$11.35	\$10.35

CONTURA STYLE ROCKER SWITCHES

Individual "Contura" Style DC Rocker Switches

These are the superb looking rocker switches that you have seen in the cockpits of the 70-100ft luxury motor cruisers recently. They would look great in your 4WD, RV, Caravan or any other application as well. The base switch supplied (rated at 12V 20A, 24V 10A) comes with a double-LED illumination (low in OFF, high in the ON position), a standard rocker cover and a standard range of decals to customise the switch to your application. Typical decals are symbols for: windscreen wipers, horn, heater, etc; there are dozens of these decals included.

Also available are a set of special laser-etched covers with the following graphic symbols to really create a professional finish. You need to buy the basic switch (in blue, white or red illumination) and then the custom cover (if required.)



SK-0910 SK-0912 SK-0914 SK-0916

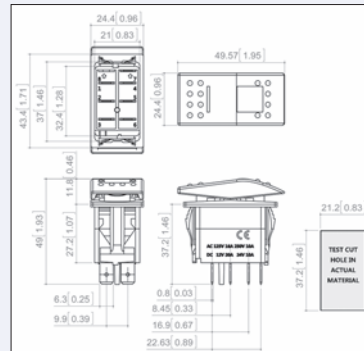


SK-0920 SK-0921 SK-0922 SK-0923 SK-0924

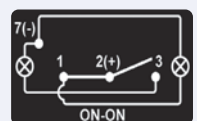


SK-0925 SK-0926 SK-0927 SK-0928 SK-0929

⬆	Rating		Colour	Cat.	Qty 1 +	Qty 10 +	Qty 25 +
	12V 20A/24V 10A	SPDT	White	SK-0910	\$12.95	\$11.35	\$10.35
	12V 20A/24V 10A	SPDT	Red	SK-0912	\$12.95	\$11.35	\$10.35
	12V 20A/24V 10A	SPDT	Blue	SK-0914	\$12.95	\$11.35	\$10.35
	12V 20A/24V 10A	SPDT	Amber	SK-0916	\$12.95	\$11.35	\$10.35
⬆	Laser-etched rockers			Cat.	Qty 1 +	Qty 10 +	Qty 25 +
	12V Power			SK-0920	\$2.95	\$2.60	\$2.30
	Fridge			SK-0921	\$2.95	\$2.60	\$2.30
	Aux Battery			SK-0922	\$2.95	\$2.60	\$2.30
	Interior Lights			SK-0923	\$2.95	\$2.60	\$2.30
	Spot Lights			SK-0924	\$2.95	\$2.60	\$2.30
	Horn			SK-0925	\$2.95	\$2.60	\$2.30
	Rear View Camera			SK-0926	\$2.95	\$2.60	\$2.30
	Inverter			SK-0927	\$2.95	\$2.60	\$2.30
	Driving Lights			SK-0928	\$2.95	\$2.60	\$2.30
	Thermofan			SK-0929	\$2.95	\$2.60	\$2.30



Note: Switch cover designs may vary slightly to ones shown



See our "Contura" Style USB Sockets on page 480

ROCKER SWITCHES (CONTINUED)

Inline Low Voltage Switch

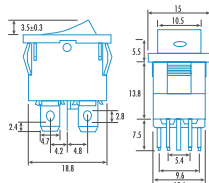
Simply connect your plug pack adaptor into this handy in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. Fitted with 2.1mm DC plug & socket and rated at 24VDC at 2 amps.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 2A	SK-0998	\$7.95	\$6.95	\$6.25

DPST - Mini - Neon Illuminated

- 240VAC
- Illuminated actuator
- Solder terminals
- QC tab termination 6.4mm (PT-4607)



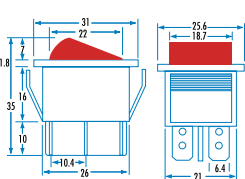
As used in our Power Boards

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A DPST	Red	SK-0995	\$4.95	\$4.45	\$3.90

DPDT - Large - Neon Illuminated

Mains Illuminated. DPDT 240VAC 15 amp.

- Black body, available in red or green illumination.
- Spade lug connections.
- Cutout 27 x 22mm.
- QC tab termination 6.8mm (PT-4507)

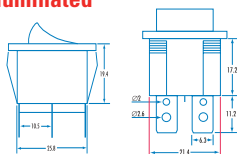


Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A DPDT	Red	SK-0982	\$4.95	\$4.45	\$3.90
240VAC 15A DPDT	Green	SK-0983	\$4.95	\$4.45	\$3.90

DPDT - Large - Non Illuminated

DPDT switch with black body and black actuator.

- QC tab termination
- 240VAC 16A.
- Snap in fitting.

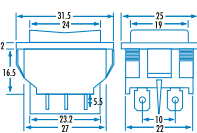


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 16A	SK-0981	\$3.95	\$3.45	\$3.15

DPDT - Large - Centre/Off

Spring Return Both Sides, Momentary contacts with spring returns to centre on both sides. These are commonly used for car power antennas and power windows.

- Rated at 10A 250VAC.
- QC tab termination 6.4mm (PT-4607)



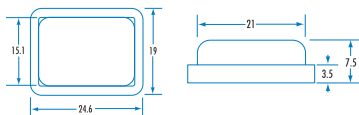
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK-0980	\$7.95	\$6.95	\$6.25

Waterproof Caps for Rocker Switches

Push-on, clear plastic caps to suit rocker switches.

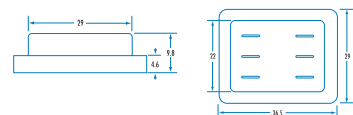
SUITS MINI SWITCHES

Suits switches SK-0984, SK-0985 and SK-0987.



SUITS LARGE ROCKER SWITCHES

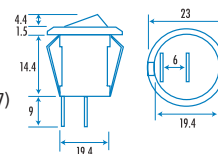
Suits switches SK-0980, SK-0981, SK-0982 and SK-0983.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits Larger Rocker Switches	SK-0972	\$1.95	\$1.75	\$1.55
Suits Mini Rocker Switches	SK-0970	\$1.40	\$1.25	\$1.10

SPST - Round Actuator

- Snap fits into a 20mm round hole
- 10 amps @ 250VAC
- Black body with black actuator
- QC tab termination 6.4mm (PT-4607)

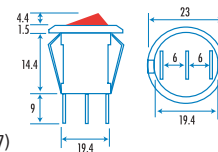


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK-0960	\$2.25	\$1.95	\$1.80

SPST - Round Actuator

Illuminated Red

- Snap fits into a 20mm round hole
- 6A @ 250VAC
- Black body with red neon actuator
- QC tab termination 6.4mm (PT-4607)

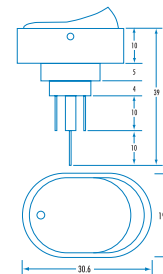


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK-0962	\$2.95	\$2.60	\$2.30

SPST - Rocker Actuator

LED Illuminated - Red
This is a classy switch. It is a rocker, but only needs a round 12mm hole (with 1mm flat). It is SPST and can handle a massive 30 amps at 12VDC. There is an LED in the actuator which lights from a 9 - 12V source.

- QC tab termination 6.8mm (PT-4507)

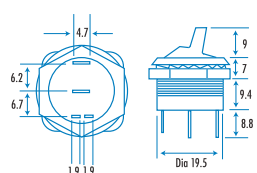


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 30A	SK-0955	\$4.95	\$4.45	\$3.90

SPST - Paddle

LED Illuminated - RED
Paddle type actuator with built in red LED

- Mounts easy in a 20mm hole
- 10A @ 250VAC
- LED requires 12V @ 20mA
- Black body
- QC tab termination 6.8mm (PT-4507)
- Solder tabs for LED

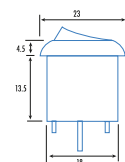


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK-0964	\$4.95	\$4.45	\$3.90

DPDT Round Actuator - Red

This rocker mounts in a round 18mm hole.

- DPDT
- 6 amps @ 250VAC
- Black body, red actuator
- Solder pins
- 18mm mounting hole

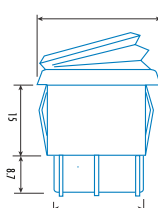


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK-0994	\$4.95	\$4.45	\$3.90

DPDT - Round Actuator - IP65

DPDT round rocker switches with mini spade QC lugs. Sealed with a rubber boot and IP65 rated.

- 20mm mounting hole



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A Black	SK-0966	\$6.95	\$6.25	\$5.50
250VAC 6A Red - Illuminated	SK-0967	\$7.95	\$6.95	\$6.25

TAMPER SWITCHES

Alarm Tamper Style

This switch mounts behind an alarm module, bell or other item. If the device is tampered with or pulled from the wall, the alarm will be triggered. SPST. 18mm mounting hole. Contacts close when button depressed.



↑		Cat.	Qty 1+	Qty 10+	Qty 25+
	SPST	Each	LA-5066	\$2.95	\$2.60 \$2.30

Tamper (Pin) Style - 2 Pack

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel.

- Bullet connector termination



↑		Cat.	Qty 1+	Qty 4+	Qty 8+
	Pack of 2	LE-8775	\$5.95	\$5.25	\$4.75

Metal Tamper (Pin) Style - 2 Pack

Especially good for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion in hostile environments. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.



Length (main body):	38mm	Including plug & lug:	70mm
Shaft diameter:	7.75mm	Fascia nut size:	11mm
Locking nut size:	12mm	Travel (max):	13.5mm.

↑		Cat.	Qty 1+	Qty 2+	Qty 4+
	Pack of 2	LE-8776	\$7.95	\$6.95	\$6.25

Metal Fascia Inset Pin Switch - 2 Pack

Inset pin switch with plated metal fascia. Suitable for many cars as a replacement door switch. The sturdy plunger can be cut to required length. Termination via right angle 6.4mm spade lug.



Fascia:	34.5 x 16.5mm	Pin:	27(L) x 8(dia)mm
Overall depth:	51mm	Travel (max):	8mm
Depth behind fascia:	15mm (not inc lug & pin)		

↑		Cat.	Qty 1+	Qty 2+	Qty 4+
	Pack of 2	LE-8777	\$7.95	\$6.95	\$6.25

Van Sliding Door Style

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions. Contacts are rated at a massive 20A @ 12V.

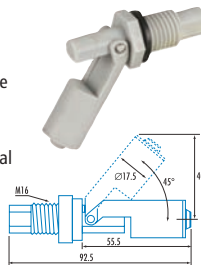


↑	Rating		Cat.	Qty 1+	Qty 2+	Qty 4+
	12VDC 20A	Each	LE-8779	\$18.95	\$16.95	\$14.95

FLOAT SWITCHES

Float Switch

VERTICAL OR HORIZONTAL MOUNT NO or NC
Ideal for use in conjunction with solenoid valves, water pumps, etc., this float switch can be made NO or NC (Normally Open or Normally Closed) by the orientation of the float. Horizontally mounted so the float falls, when the fluid level rises it will switch ON at maximum float height. Mounting the switch so the float rises upwards when the fluid level rises above switch height it will switch OFF. Vertical mounting, with the float down, will switch OFF at a high fluid level. Widely used in marine, automobile, industrial, agricultural fluid level sensing applications.



- 560mm wire leads
- 92.5(L) x 18(D)mm x M16
- Float Rise height: 40mm from centreline

↑		Cat.	Qty 1+	Qty 10+	Qty 25+
	NO or NC	SF-0920	\$19.95	\$17.95	\$15.95

Top Mounting Float Switch (Level Detector)

This unit can be fitted to the lid or top cover of a tank. Mounting is via an 8mm drill hole, a plastic locking nut & 'O' ring are supplied. Float movement is approx 20mm so an air gap between required 'full' level & top of tank can be accommodated if necessary. (The travel could be reduced, by relocating 'C' clip retainer.) The switch is rated at 200V 0.5A so it is not suitable to directly switch mains. When container is full the switch is open. Ideal for drinking water.



- 70(L)mm overall x 23(Dia.)mm (float)

↑		Cat.	Qty 1+	Qty 10+	Qty 25+
		SF-0922	\$17.95	\$15.95	\$14.35

SWITCHES

SPST Mini Mercury

With a robust plastic housing, this switch has a mounting tab - you can screw it down - or use the self adhesive strip supplied. It has a 30cm lead. Switch contacts are open when the device is mounted horizontally. Dimensions: 33 (L) x 8(W) x 8.5(D)mm



↑		Cat.	Qty 1+	Qty 10+	Qty 25+
	SPST	SM-1044	\$4.45	\$3.95	\$3.45

NC Reed Switch*

Ideal for burglar alarms. **Coin not included for size purposes only**

- Total length: 44mm
- Contact rating: 10W
- Switching voltage: 200VDC (max)
- Switching current: 0.5A (max)
- Carrying current: 1.0A (max)

*Normally open, but closed when near magnet



↑	Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
	200VDC 500mA		SM-1002	\$1.95	\$1.75	\$1.55

Mercury Switch SPST

Glass encapsulated

- 125VAC 3 amp AC. SPST.
- Size glass 18(L)mm x 5.5mm dia.



Coin not included for size purposes only

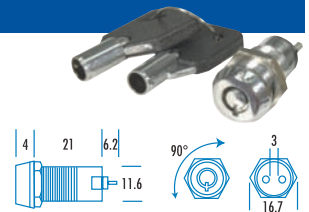


↑	Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
	125VAC 3A	SPST	SM-1035	\$2.75	\$2.45	\$2.15

BARREL LOCKS

SPST Barrel Key, Mini

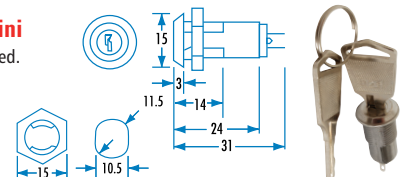
Chrome plated SPST mini key switch features spring return momentary operation and is supplied with two mini barrel keys. Requires 28mm mounting depth and a panel cutout of 12mm. Contact rating: 0.5A@250VAC / 1A@125VAC



↑	Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
	250VAC 500mA	SPST	SM-1034	\$9.95	\$8.75	\$7.75

SPST Standard Key, Mini

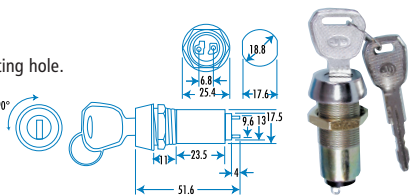
Rated at 3 amps. 2 keys supplied. Panel cutout 12mm. Mounting depth 29mm. Contact rating: 1A 125VAC / 0.5A @250VAC.



↑	Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
	125VAC 1A	SPST	SM-1027	\$9.95	\$8.75	\$7.75

SPST Standard Size

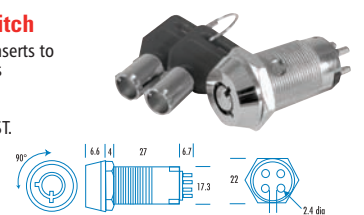
Solid barrel type. 19mm mounting hole. SPST action. Supplied with 2 (two) keys. Rated @ 250V 2A.



↑	250VAC 2A		Cat.	Qty 1+	Qty 10+	Qty 25+
	Random Keys		SM-1030	\$12.95	\$11.35	\$10.35
	Keyed Alike	Type A	SM-1029	\$12.95	\$11.35	\$10.35
	Keyed Alike	Type B	SM-1031	\$12.95	\$11.35	\$10.35

DPST Change-Over Key Switch

Uses tubular keys with black plastic inserts to easily identify them. It has 2 positions and the key is removable from both. There are 4 connection terminals, is a change-over type - i.e. connection DPST. Contact rating: 2A, 250VAC.



↑	Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
	250VAC 2A		SM-1032	\$13.95	\$12.35	\$10.95

ELECTROMECHANICAL & ENCLOSURES

SLIDE & MICRO SWITCHES

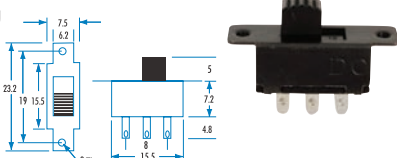
SLIDE SWITCHES

These slide switches have silver plated contacts, contact ratings of 0.3A @ 100V min, 25mΩ contact resistance, 100MΩ plus insulation resistance (at 500VDC) & endure about 10,000 cycles.

DPDT Panel Mount Sub Miniature

Break before make (non shorting contacts).

- Size 23(L) x 7(W)mm
- Actuator height 5mm.
- Mounting holes 19mm apart.
- Screws to mount switch use Cat. HP-0390.

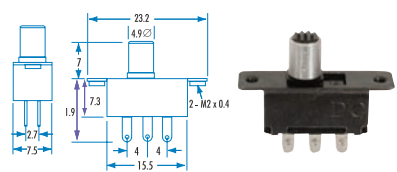


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA DPDT	SS-0852	\$1.45	\$1.30	\$1.15

DPDT Panel Mount Sub Miniature

(Spun aluminium actuator)

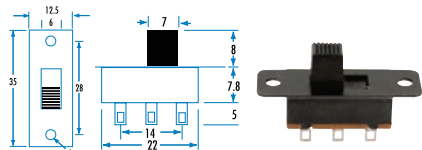
- Panel mount.
- Size 23(L) x 7(W)mm.
- Actuator height 7mm.
- Mounting holes 19mm apart.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA DPDT	SS-0812	\$1.45	\$1.30	\$1.15

DPDT Panel Mount Miniature

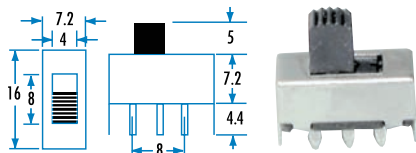
- Size 35(L) x 13(W)mm.
- Actuator height 6mm.
- Mounting holes 28mm apart
- 3mm diameter holes for screws.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA DPDT	SS-0821	\$1.25	\$1.10	\$0.97

DPDT PCB Mount Sub Miniature

- Size 16(L) x 7.2(W)mm.
- Actuator height 5mm.

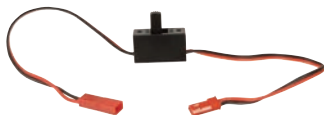


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA DPDT	SS-0823	\$1.45	\$1.30	\$1.15

Inline JST Switch Kit

JST switches and connectors provide an unobtrusive solution to power control. They are small so will fit comfortably in the chassis of an RC vehicle. This kit includes a JST switch with a male and female JST connector on each end attached to a 140mm wire. Great for hobby applications such as model trains, remote control helicopters and cars, or simple around the house projects that require discrete and simple switching.

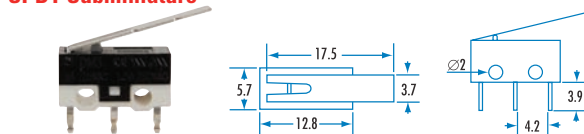
- Includes mounting bracket and screws
- Switch dimensions: 25(L) x 25(H) x 9(D)mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
	SS-0826	\$3.95	\$3.45	\$3.15

MICROSWITCHES

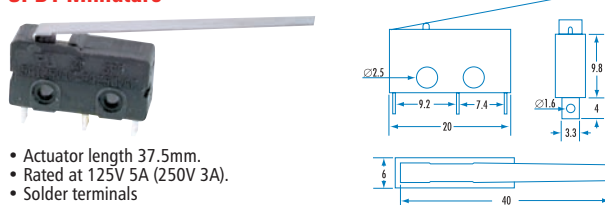
SPDT Subminiature



- Actuator length 14mm
- Rated at 125V 3A
- Solder terminals

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125V 3A SPDT On - On	SM-1036	\$3.95	\$3.45	\$3.15

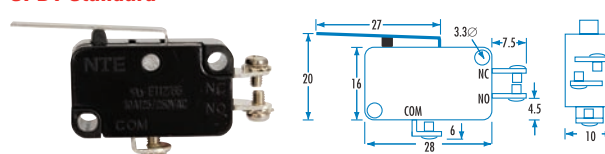
SPDT Miniature



- Actuator length 37.5mm.
- Rated at 125V 5A (250V 3A).
- Solder terminals

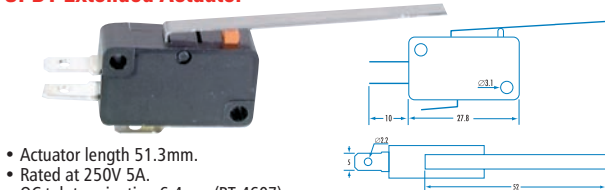
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125V 3A SPDT On - On	SM-1038	\$4.95	\$4.45	\$3.90

SPDT Standard



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A SPDT On - On	SM-1040	\$3.75	\$3.30	\$2.95

SPDT Extended Actuator



- Actuator length 51.3mm.
- Rated at 250V 5A.
- QC tab termination 6.4mm (PT-4607)

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 5A SPDT On - On	SM-1039	\$3.75	\$3.30	\$2.95

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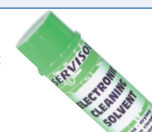
LIQUID TAPE P46

FROM
\$2.75
PT-4607



SPADE CONNECTORS P237

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\$11.50
NA-1004



CONTACT CLEANER P45

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\$9.95
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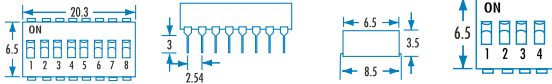


CARBON GREASE P103

DIP SWITCHES

DIP Switches

- End stackable
- Moulded 0.3" IC packing outline for automatic insertion
- Smaller sized
- Twin contact design
- Gold plated contact & tin plated terminals.
- Switching: 25mA 24VDC
- Non-Switching: 100mA 50VDC
- Contact Resistance: Initial 50mΩ max
- Dielectric Strength: 500VDC min 1 minute

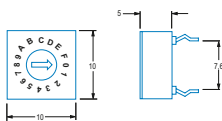


Type	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
2 Way	4 pin DIP	SM-1012	\$1.55	\$1.35	\$1.20
3 Way	6 pin DIP	SM-1013	\$1.75	\$1.55	\$1.40
4 Way	8 pin DIP (low profile)	SM-1020	\$1.95	\$1.75	\$1.55
6 Way	12 pin DIP	SM-1015	\$2.15	\$1.90	\$1.70
8 Way	16 pin DIP (low profile)	SM-1024	\$2.40	\$2.15	\$1.90
10 Way	20 pin DIP	SM-1017	\$2.65	\$2.30	\$2.07
12 Way	24 pin DIP	SM-1018	\$2.90	\$2.60	\$2.30

Binary Coded DIL Rotary Switches

These tiny switches are designed for PCB use. These pins are moulded in and fully sealed. The body is moulded in UL 94V-0 flame-retardant plastic.

Specifications	SR-1220/SR-1222
Contact rating	Switching 25mA@24VDC
Non Switching	100mA @50VDC (dry contact switching)
Contact Resistance	100mΩ max
Insulation Resistance	1,000MΩ (min) at 100VDC
Dielectric Strength	250V AC for 1 minute
Temp (operating)	-25°C to +70°C
Max Rotational	
Torque Required	500gf-cm
Operational Life	2,000 steps/min, switching
Solderability After flux	230 +/- 5°C for 5 +/- 0.5 sec

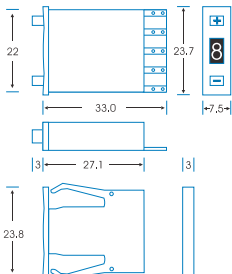


Binary Coded Hex	Cat.	Qty 1+	Qty 10+	Qty 25+
0 through F output	SR-1220	\$3.95	\$3.45	\$3.15
Binary Coded Decimal	Cat.	Qty 1+	Qty 10+	Qty 25+
0 through 9 output	SR-1222	\$3.95	\$3.45	\$3.15

0 - 9 BCD Pushwheel

These pushwheel switches can be ganged together to make any combination and can be panel mounted using the optional pair of end caps (SR-1254). Switch positions (0 - 9) indicated via large numbers (white on black) and outputs are BCD encoded. Optional spacers (SR-1256) can be ganged together to provide spacing (7.62mm each) between the switches.

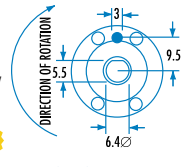
Specifications	SR-1250
Rating	50VAC / 28VDC Max
Switching Current	100mA Max
Continuous Current	500mA Max
Contact resistance	200m ohms Max (initial)
Insulation resistance	100M ohms Min
Dielectric strength	500VAC 1 minute
Operating temperature	-20°C to +65°C
Ambient humidity	75% RH Max
Mechanical life	200,000 steps Min
Electrical life	100,000 steps Min



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Switch	SR-1250	\$9.95	\$8.75	\$7.75
Spacer	SR-1256	\$2.45	\$2.15	\$1.95
End caps - Pair	SR-1254	\$2.45	\$2.15	\$1.95

Sealed PCB Rotary Switches

These switches have a removable ring with tab which can be inserted into the switch several ways to your particular requirements. For example, if you purchased a 1 pole x 12 way (max) switch you could convert it to, say, 1 pole 7 way between stops. They have a standard 1/4" shaft. Panel hole 10mm. Contact rating 150mA at 240VAC. Cutout 9.5mm.



1 POLE

Configured from 1 pole 2 position through to 1 pole 12 position.

2 POLE

From 2 pole 2 position to 2 pole 6 position

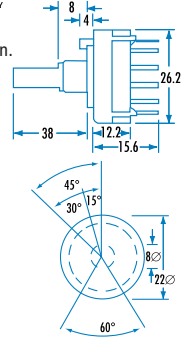
3 POLE

From 3 pole 2 position to 3 pole 4 position

4 POLE

4 pole, 2 and 3 position

- Break before make

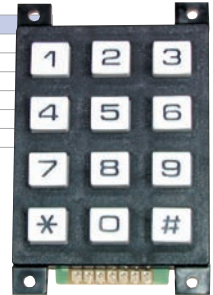
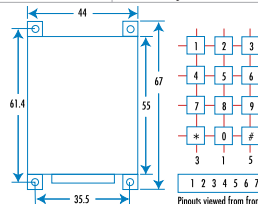


Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 150mA	1 pole	SR-1210	\$3.95	\$3.45	\$3.15
240VAC 150mA	2 pole	SR-1212	\$3.95	\$3.45	\$3.15
240VAC 150mA	3 pole	SR-1214	\$3.95	\$3.45	\$3.15
240VAC 150mA	4 pole	SR-1216	\$3.95	\$3.45	\$3.15

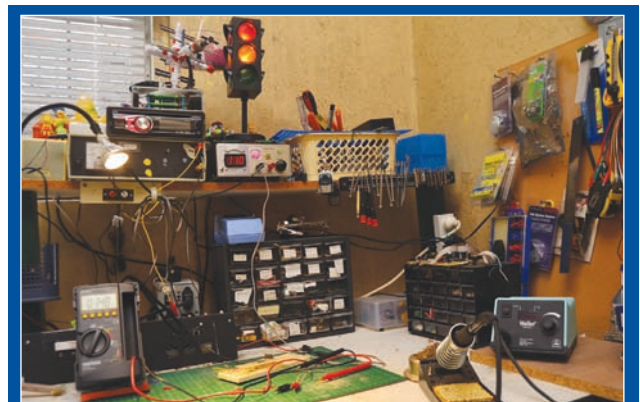
12 Key Numeric Keypad

This telephone style keypad has many uses. It has 0-9, *, # - 3 x 4 way matrix.

Specifications	SP-0770
Contact rating	20mA, 24VDC
Contact resistance	200Ω max
Life	1,000,000 cycles per key
Contact	Conductive rubber
Dimensions (Key Face)	44(W) x 54(H) x 5(D)mm
Colour	White keys on black background



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 20mA	SP-0770	\$8.95	\$7.95	\$6.95



Workbench sent to us by: Sunardi Jaycar Store: Alexandria

My workbench, just a perfect workbench to make my idea comes alive. The car radio is my companion during the making of the project. The traffic light is one of the projects that comes alive.

The tools always help during the creation of project. The components, multimeter and two power supply unit are important in the making of the project start from prototyping.

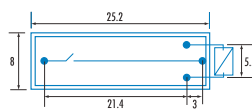
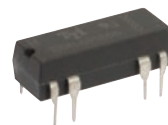
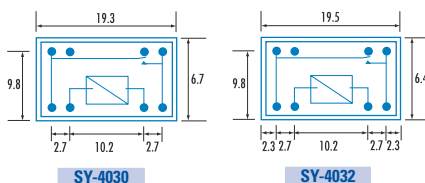
For more details, visit: www.jaycar.com.au/workbench

RELAYS PCB MOUNT

Dual-In-Line Reed Style Relays

They will fit into a 14 pin IC socket, are highly sensitive and can be driven by TTL, etc. Both are SPST normally open.

Specifications	SY-4030	SY-4032	SY-4036	SY-4038
Contact form	SPST normally open	SPST normally open	SPST normally open	SPST normally open
Coil Resistance	500Ω	1000Ω	500Ω	1050Ω
Nominal Voltage	5V	12V	5V	12V
Rated Current	10mA	12mA	20mA	11.4mA
Pickup Voltage	3.75V DC	9.0V DC	3.5V DC	8.4V DC
Dropout Voltage	0.8V DC	1.0V DC	0.5V DC	1.2V DC
Allowable Voltage	160%	160%	160%	160%
Power Consumption (W)	-	-	0.1	0.1
Contact Rating	0.5A	0.5A	1A	1A



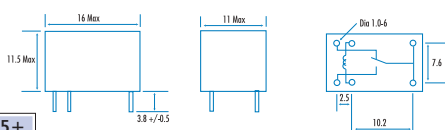
↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	10mA	SPST	SY-4030	\$4.75	\$4.15	\$3.75
12VDC	12mA	SPST	SY-4032	\$4.75	\$4.15	\$3.75
5VDC	20mA	SPST	SY-4036	\$3.95	\$3.45	\$3.15
12VDC	11.4mA	SPST	SY-4038	\$3.95	\$3.45	\$3.15

STANDARD COIL / CONTACT RELAYS

DIL Type - 6V 1A Mini

- Extra low profile. 6V DC bobbin
- 56 ohm coil resistance
- 1A / 125VAC
- PCB mount
- Contact rating: 1 Amp
- SPDT.
- Dimensions: 15 x 11 x 11(H)mm

↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC	1A	SPDT	SY-4058	\$7.95	\$6.95	\$6.25

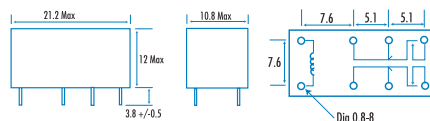


DIL Type - 12V 5A Mini

- 12 volt DPDT relay.
- 12V DC coil.
- Max switching power 60W
- Dimensions: 20 x 10 x 9(H)mm
- High sensitivity 200mW pickup power
- Coil resistance 360Ω.
- 125VA.
- PCB mount

Note: Colour of relay may vary to one shown.

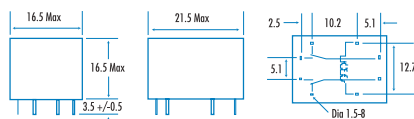
↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY-4059	\$9.95	\$8.75	\$7.75



12V 1A DPDT

- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Dimensions: 21(W) x 16(D) x 15(H)mm
- Coil current - 30mA
- Contact rating: 1 Amp

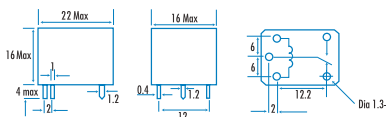
↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	1A	DPDT	SY-4061	\$4.95	\$4.45	\$3.90



12V 10A SPDT

- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 30mA
- Contact rating: 10 Amp
- Maximum switching current: 10A(AC) and 5A(DC)
- Dimensions: 18(W) x 15(D) x 14(H)mm

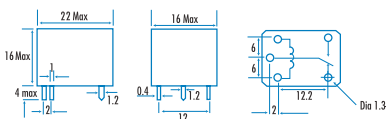
↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY-4066	\$4.45	\$3.95	\$3.45



24V 10A SPDT

- Rated voltage: 24VDC
- Coil resistance: 1,600Ω
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 15mA
- Contact rating: 10A
- Max switching current: 10A(AC) & 5A(DC)
- Dimensions: 22(L) x 16(W) x 16(D)mm

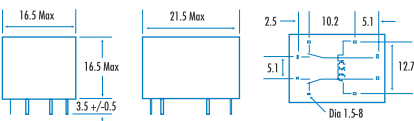
↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC	10A	SPDT	SY-4067	\$4.45	\$3.95	\$3.45



12V 5A DPDT

- Extra heavy duty mini relay
- Coil current - 30mA
- Contact rating - 5 Amp
- Dimensions: 21(W) x 16(D) x 15(H)mm
- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Power consumption - 360mW
- NO/NC contacts.

↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY-4062	\$5.95	\$5.25	\$4.75

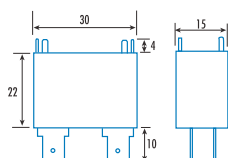


12V 20A SPST PCB Mount Relay

PCB mounting 12V relay with QC lug terminals mounted conveniently on top of case. What a good idea!

- Coil voltage: 12VDC
- Coil resistance: 275 ohms
- Contact current: 20A@24VDC max
- Coil current: 44mA
- Contacts: SPST
- Dimensions: 30(L) x 22(W) x 15(H)mm!

↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	20A	SPST	SY-4029	\$8.95	\$7.95	\$6.95

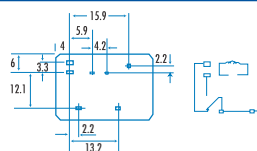


STANDARD COIL / CONTACT RELAYS (CONTINUED)

12V 30A SPDT - Standard Size (Horn Relay)

PCB version of standard 30A horn type relay. Whilst designed for auto horns, this relay is ideal for any high current application i.e. burglar alarms, ignition cutout, transmitters, car spotlights etc.

- Contact current (max) 40A
- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDC
- PC Pin termination



↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPDT	SY-4072	\$7.45	\$6.50	\$5.75

12V 2A DPDT Latching

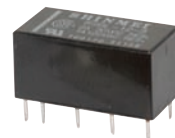
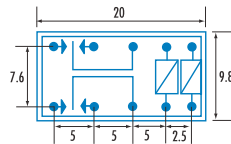
DIP style - will plug into 16 pin IC socket.
Low profile. Highly sensitive - 180mW nominal power consumption.

Specifications Coil

2 coil latching - 12VDC
Minimum set and reset power 180mW
Nominal set and reset power 360mW

Specifications Contact

Max switching power 60W, 125VA
Max switching voltage 220VDC, 250VAC
Max carrying current
2A @ 30VDC, 1A @ 120VAC
Dimensions: 20(W) x 10(D) x 10(H)mm.



↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	2A	DPDT	SY-4060	\$12.95	\$11.35	\$10.35

Special PC Mount

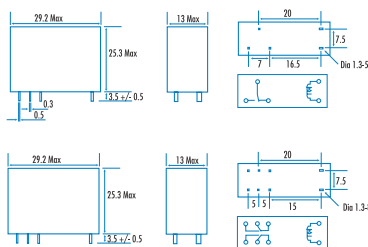
Silver alloy contacts
• Telecoms grade

SPDT - 12/24VDC

- Coil 270Ω - 12VDC - SY-4050
- Coil 1100Ω - 24VDC - SY-4051
- 10A @ 30VDC or 10A @ 240VAC contact rating.

DPDT - 12/24VDC

- Coil 270Ω - 12VDC - SY-4052
- Coil 1100Ω - 24VDC - SY-4053
- 2 x 5A @ 30VDC or 2 x 5A @ 240VAC contact rating.
- Dimensions: 29(W) x 12(D) x 25(H)mm



↑ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY-4050	\$7.95	\$6.95	\$6.25
24VDC	10A	SPDT	SY-4051	\$8.95	\$7.75	\$6.95
12VDC	5A	DPDT	SY-4052	\$8.95	\$7.95	\$6.95
24VDC	5A	DPDT	SY-4053	\$9.95	\$8.75	\$7.75

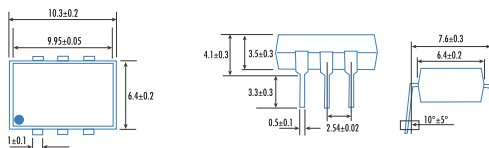
SOLID STATE RELAYS

Solid state relays are particularly useful when only low switching currents are available, such as those presented by CMOS or TTL circuits. Optically isolated for optimum safety, the relays feature high surge ratings to allow lamp and motor switching plus zero voltage turn-on and zero current turn off to minimise EMI and RFI emissions. Use this relay in conjunction with our remote control switches for safe 240V AC mains switching.

PCB Mount Solid State DIL Relay

Able to be triggered from low currents, and a super small package.
Low on resistance and very low quiescent current.

Specifications	SY-4090
Must release current	0.4mA
Must operate current	5mA
Maximum load voltage	60VDC
Maximum load current	150mA
Package	6 pin DIL



↑ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5V	500mA	SY-4090	\$4.95	\$4.45	\$3.90

TECH TALK!

HOW TO TURN AN ORDINARY RELAY INTO LATCHING TYPE

Sometimes you want to energise a relay to stay "on" instead of only momentarily staying on.
For example you may want to make an electric motor, or a solenoid to stay on for some time.

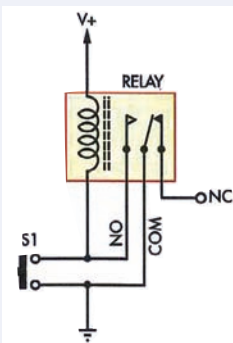
You can do this with the circuit shown.

The key to this is a momentary push button switch (there are many in this catalogue.)

Pressing the push button switch (S1) activates the relay and closes the N O (Normally Open) and COM (Common) contacts. These contacts form a parallel connection across S1. Even if S1 is now opened, the relay will stay ON, or "latched."

To turn the relay off, you must interrupt power to the coil, in other words, switch V+ off, even momentarily. Even if you switch V+ on again, the relay will remain off, until you push S1 again.

Note: While the relay is energized, it will continue to draw coil current.
True mechanical latching relays do not do this.



Workbench sent to us by: Gary - Jaycar Store: Mt Wellington, NZ

I am a Meccano hobbyist, builder and collector, I have always been interested in 3D printer technology perhaps with an idea of making one off Meccano parts in a plastic medium.

My work space reflects models I am currently working on.

For more details, visit:
www.jaycar.com.au/workbench



SOLID STATE RELAYS (CONTINUED)

PCB Mount Solid State Relays, Low Current

Low profile PCB mounting solid state relays with LED input status indication. Suitable for applications such as I/O interfaces and programmable logic controllers. Three types available:

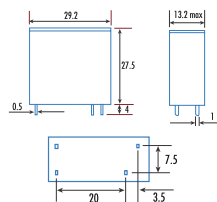
SY-4093: 12VDC, DC POWER

Specifications	SY-4092	SY-4093
Control voltage range	4 - 6VDC	9.6 - 14.4VDC
Max. input current	20mA	20mA
Load voltage	3 - 52.8VDC	3 - 50VDC
Load current	0.01 - 2A	0.01 - 2A

Will only switch off if DC power interrupted

SY-4097: 12VDC RANDOM TURN ON

Type: Random turn on, solid state relay. When the control voltage is given the relay output will turn on regardless of what the line voltage is. Suitable for inductive loads.



TECH TALK!

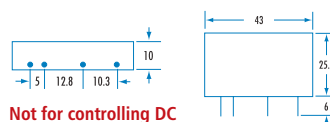
SY-4097 will switch off if control voltage is removed when AC power source crosses through zero

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY-4092	\$6.95	\$6.25	\$5.55
12VDC	2A	SY-4093	\$5.95	\$5.25	\$4.75

SY-4080: MAINS TYPE

Specifications - Output Circuit	SY-4080
Max load current	3A
Nominal line voltage	240V AC
Load voltage range	24-280V AC
Min. blocking voltage	600V AC
Max one-cycle surge current	80A
Min. load current	50mA
AC current	3A max

Specifications - Input Circuit	
Control voltage	3-32V DC
Control current	15mA Max
Min. turn off voltage	1V DC
Input resistance	2.2kΩ min

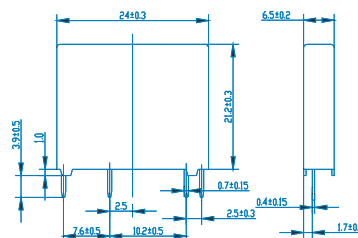


Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
3-32VDC	3A	SY-4080	\$19.95	\$17.95	\$15.95

Slim 5V, 12V

- Ultra slim
- Photo isolation
- Sealed type
- 2A switching
- 600V blocking voltage

Specifications	5VDC (SY-4088)	12VDC (SY-4089)
Dielectric strength	20000VAC (1 minute)	20000VAC (1 minute)
Insulation Resistance	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Operating temperature	-30°C to +80°C	-30°C to +80°C
Input Ratings		
Control Voltage	4-6 VDC	9.6 - 14.4 VDC
Maximum Current	15mA	15mA
Voltage On	4V	4V
Current Off	1V	1V
Output Ratings		
Voltage (AC Power)	50 - 250VAC	50 - 250VAC
Maximum Current	2A	2A
Surge Current	30A	30A



Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY-4088	\$6.95	\$6.25	\$5.50
12VDC	2A	SY-4089	\$6.95	\$6.25	\$5.50

Chassis Mount Solid State Relays, High Current

Both look similar but are in fact quite different

SY-4084 40A, 240VAC TRIAC TYPE

This unit has a dielectrically isolated D.C. control input that controls a 40amp TRIAC. This means that you can control AC mains up to 40A RMS. It also means that it will not control D.C.. For that you need the SY-4086 below.

Specifications for SY-4084

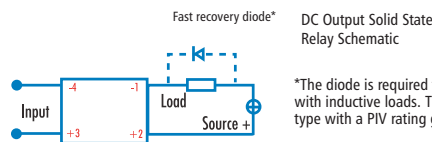
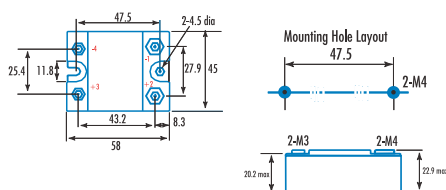
- Dielectric isolation rating 4000VAC
- Opto isolated control, 4V min, 32V max (D.C.)
- TRIAC controlled AC out. 48-280VAC.
- Built-in snubber
- RoHS compliant.

SY-4086 100A, 0-30VDC MOSFET TYPE

This unit has a dielectrically isolated D.C. control input to switch a MOSFET which can control loads of up to 100A @ 30VDC. It will not switch AC. To switch AC use the SY-4084. NB: Mechanical details same for both units. Advantages of SY-4086. Switching high current D.C. was previously accomplished by high current contactors. Contactors, however, wear out quickly as they are plagued by arcing of the actual contacts. There is no arcing with MOSFETs and their very low ON-resistance (in this case 3.5 milli Ω) ensures little wasted energy.

Specifications - Output Circuit	
Load Voltage	0-30VDC
Load Current	0.02-100A
Max On-State Resistance	0.0035Ω
Max On-State Voltage Drop	0.35V
Max Turn On Time	0.5ms
Max Turn Off Time	0.5ms
Max Surge Current	240A (10ms)

Specifications - Input Circuit	
Control Voltage	3-32VDC
Control Current	28mA max.
Min Turn Off Voltage	1.0VDC



*The diode is required to prevent back EMF problems with inductive loads. The diode should be a fast recovery type with a PIV rating greater the VDC Power Supply.

HEATSINK TO SUIT SY4084/SY4086

Using this heat sink with the SY-4084/SY-4086 solid state relays assures you reach the full current capacity. Solid state relays become quite hot when used in a high current application, so suitable heat sinking is essential. Datasheet available on our website.

- Thermal resistance - 1.1° C/W
- Dimensions - 118(W) x 110(L) x 64(H)mm



Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC (ONLY)	40A	SY-4084	\$47.95	\$42.95	\$38.45
30VDC	100A	SY-4086	\$49.95	\$44.90	\$39.90
Heatsink to suit		SY-4085	\$9.95	\$8.75	\$7.75

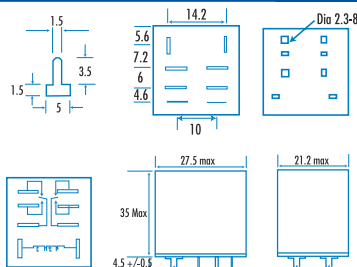
CRADLE RELAYS

Cradle Relay - DPDT

PCB or DIN mount relays. Available in 12V or 24VDC configuration.

- Relay 24VDC 10A
- Coil current: 58mA
- Contact resistance: 50 milliohms
- Must operate voltage: 19.2VDC
- Coil resistance: 650Ω (SY-4007), 160Ω (SY-4008)
- Rated coil voltage: 24VDC
- Contact rating: 10A (resistive load)
- Operate time: 25ms max,
- Operational life: 20 million cycles,
- Suitable base: SY-4064

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	10A	DPDT	SY-4008	\$7.95	\$6.95	\$6.25
	24VDC	10A	DPDT	SY-4007	\$7.95	\$6.95	\$6.25

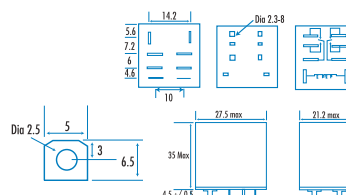


Cradle Relay - DPDT

For heavy current switching for mains appliances eg. high power speakers.

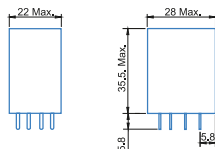
- Contact rated at 10A 240VAC.
- Coil 12VDC 160 ohms.
- Suitable base: Use SY-4064 cradle
- NO/NC contacts.
- DPDT contacts.
- Dimensions: 27(W) x 20(D) x 35(H)mm.

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	10A	DPDT	SY-4065	\$7.95	\$6.95	\$6.25

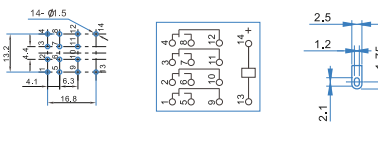


Cradle Relay - 4PDT

- Rated Voltage: 12VDC
- Coil Resistance: 180Ω
- Contact Rating: 5A NO/NC contacts
- 27(W) x 21(D) x 35(H) excl pins
- Suitable base: SY-4004



↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	5A	4PDT	SY-4009	\$9.95	\$8.75	\$7.75



DIN Rail Mount Relay Socket

DIN rail mounting base for SY-4009. Also has 4mm holes so can be screw mounted to a chassis.

- Dimensions: 71(L) x 29(W) x 30(H)mm



↑	Suits	Cat.	Qty 1+	Qty 10+	Qty 25+
	SY-4009	SY-4004	\$5.95	\$5.25	\$4.75

Cradle Relay Base

Quality DIN rail mount with screw terminals.

- Suits SY-4065
- Dimensions: 72(W) x 29(D) x 30(H)mm.



↑	Suits	Cat.	Qty 1+	Qty 10+	Qty 25+
	SY-4065	SY-4064	\$5.95	\$5.35	\$4.75

PANEL/CHASSIS MOUNT RELAYS

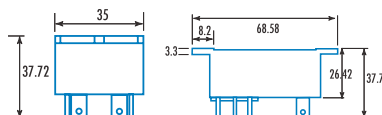
All feature rugged construction and quick connect terminals for easy installation.

24VDC OR 240VAC, DPDT, 30A

Two models available. One with a nominal 240VAC coil and one with 24VDC coil.

- Contact Form: DPDT
- Contact Rating: 30A NO / 3A NC
- 24V Model Coil Resistance: 350 ohm
- 240V Model Coil Resistance: 3800 ohm@50Hz

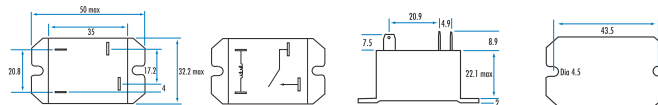
↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	24VDC	30A	DPDT	SY-4041	\$21.95	\$19.75	\$17.75
	240VAC	30A	DPDT	SY-4044	\$24.95	\$22.50	\$19.95



12VDC, SPST 30A

- Contact Voltage (nom): 12VDC
- QC tab termination - 4.8mm coil, 6.4mm contacts
- 30A
- Used in heavy duty applications like air conditioning, heating etc.
- Coil: 12V, 120 ohm
- Loads up to 7,500W,
- High inrush capability: 65A, 10,000V

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	30A	SPST	SY-4040	\$7.95	\$7.10	\$6.25



6 Way Membrane Switch Panel with Relay Box - IP67

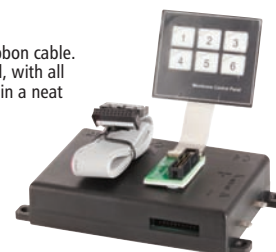
An ultra compact 6-way 12VDC touch control panel to control devices in automotive, camping, or marine applications. It features an ultra thin and flexible membrane switch panel with almost no mounting depth requiring only a very small cut-out. The 6 buttons on the switch panel control 6 relays in the separate control box for switching on/off any connected devices with ease, with the switch panel

connecting to the control box with an included 1m long ribbon cable. This gives you a completely waterproof (IP67) switch panel, with all the wiring taken care of behind your dash/panel, resulting in a neat and unobtrusive 6-way switch interface.

- IP67 rating on the switch panel
- Built-in resettable fuses

Specifications	SP-0900
Max current	10A per channel, 35A total
Touch Panel Dimensions	70(L) x 63(W) x 1(H)mm
Membrane Control Box Dimensions	135(L) x 90(W) x 33(H)mm

↑	Voltage	Current	Cat.	Qty 1+
	12VDC	6x10A	SP-0900	\$69.95



AUTOMOTIVE RELAYS

Micro 30A Horn Relays

Extremely compact with a footprint of only 22 x 15mm, but maintaining high contact currents for automotive applications. Ideal for air horns, fog lamps or driving light installations. 30A rating on NO contacts, 20A on NC for both 12V and 24V types.

NOT JUST FOR HORNS OF COURSE

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	30A	SPST	SY-4045	\$6.50	\$5.75	\$4.95
	12VDC	30A	SPDT	SY-4046	\$6.50	\$5.75	\$4.95
	24VDC	30A	SPDT	SY-4047	\$6.50	\$5.75	\$4.95

Automotive Fused Relays - 15/30A

Designed for automotive applications, these quality relays have an integrated blade fuse (fuse included) and metal mounting bracket. SY-4076 - 15A, ideal for aftermarket horns etc. SY-4077 - 30A, suits high current accessories like fog lights, driving lights etc.

- QC tab termination 6.8mm (PT-4507)

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	15A	SPST	SY-4076	\$8.95	\$7.95	\$6.95
	12VDC	30A	SPST	SY-4077	\$9.95	\$8.75	\$7.75

Automotive Horn Relay - 30A

Whilst designed for auto horns, this relay is ideal for any high current application. i.e. alarms, ignition cutout, transmitters, car spotlights etc. Contact voltage (nom) 12VDC. Nominal coil voltage 12VDC. QC tab termination

Also see our PCB mount version Cat. SY-4072 shown on page 191.

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	30A	SPST	SY-4068	\$5.95	\$5.25	\$4.75
	12VDC	30A	SPDT	SY-4070	\$5.95	\$5.25	\$4.75
	Base to Suit			SY-4069	\$4.95	\$4.45	\$3.90

Automotive Horn Relay - 60A SPDT

- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDC.
- QC tab termination
- SPDT
- Heavy duty quick connectors required for 60A terminals use PT-4717 Pkt. 4

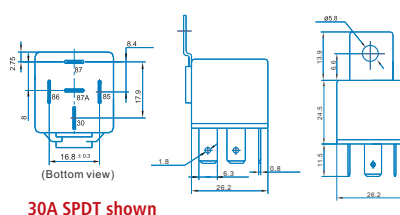
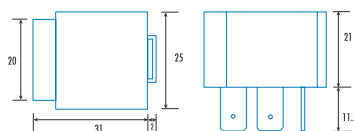
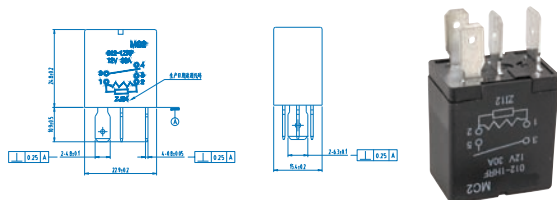
↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	60A	SPDT	SY-4074	\$8.95	\$7.95	\$6.95

Automotive Relay - 150A SPDT

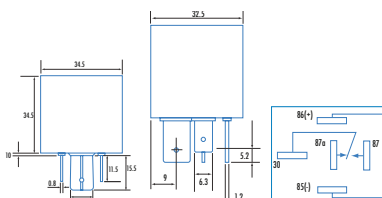
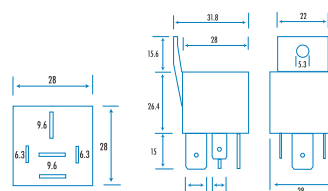
150A contacts for ultra high power applications such as multiple lights, high power audio etc, in a small package.

- Contacts: SPDT
- Contact rating: 150A
- Coil resistance: 50 ohms
- Operate time: 10ms
- Operational life: 100,000 cycles
- Contact resistance: 30m ohm max
- Coil voltage: 12VDC
- Rated coil current: 240mA
- Release time: 5ms

↑	Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
	12VDC	150A	SPDT	SY-4073	\$15.95	\$14.35	\$12.75



30A SPDT shown



RELATED PRODUCTS

Automotive Relay Base to suit above Horn Relays

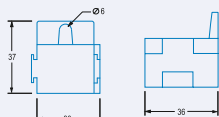
This is a plug in base with cable attached.

- Suits SY-4068 & SY-4070

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SY-4069	\$4.95	\$4.45	\$3.90

Interlocking Relay Socket with Leads

The easy and neat way to add multiple relays to your electrical system. These relay bases interlock together, can be panel mounted and take standard 5 pin automotive relays. They also come with integral flying leads as well as bare crimp terminals for customised termination.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
150mm long leads	SY-4078	\$8.50	\$7.50	\$6.75

12VDC Universal Relay Wiring Kits

Universal relay wiring kits for fitting various 12V devices to your car, such as our LED driving lights. Each harness is complete ready to use with fused battery connections, horn relay, in-cabin toggle switch, and waterproof 2 pin connection with 2m of extra wires to connect to the 12V load you want to control. The cables are fully protected inside a loom tube. Three harnesses to choose from:

12VDC 7A - SINGLE - SY-4079

- Includes a short double adaptor lead so that you can fit two or more of these wiring harnesses and control them with the one switch
- Sold individually

12VDC 13.5A - DUAL - SY-4180

- Controls a pair of LED driving lights or devices up to 150W
- Sold as a pair

12VDC 22.5A - DUAL - SY-4182

- Controls a pair of LED driving lights up to 200W
- Sold as a pair

⬆	Wiring	Cat.	Qty 1+	Qty 10+	Qty 25+
7A	Single	SY-4079	\$39.95	\$35.95	\$31.95
13.5A NEW	Dual	SY-4180	\$59.95	\$53.95	\$47.95
22.5A NEW	Dual	SY-4182	\$79.95	\$71.95	\$63.95



SY-4079

BUZZERS

PCB Mount Mini PC Piezo

Ideal when you need to fit an alarm in a small place. It has its own built-in drive circuit. It offers low current consumption and it's sealed for DIP soldering & washing.

Specifications	AB-3459
Operation voltage	9 - 14V
Rated voltage	12VDC
Current	30mA
SPL	85dB/10cm
Frequency	2.3kHz
Weight	2.4 gram

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
12mm	9.5mm	AB-3459	\$4.95	\$4.45	\$3.90

PCB Mount Piezo Buzzer

Specifications:	AB-3458
Operating Voltage	3 - 30V DC
Operating Freq	3.8 kHz
Current Draw	16mA max
SPL	85dB/30cm/12V

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
24mm	16mm	AB-3458	\$3.95	\$3.45	\$3.15

Piezo Buzzer - Mini

It offers medium to loud sound output, low current consumption and is extremely durable. Supplied with fly leads.

Specifications	AB-3462
Operating voltage	3-16VDC
Rated	12VDC
Freq	3.3kHz
Max current at 12V	15mA
SPL	90dB

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
22mm	12mm	AB-3462	\$3.95	\$3.45	\$3.15

Surface Mount Buzzer

Handy solid state buzzer operates between 5-15VDC. Used in many applications

Note: This is an electro-mechanical buzzer

Specifications	AB-3452
Operating voltage	5-15VDC
Rated	12VDC
Max current at 12V	40mA
SPL	79dB/1m

↑ Length	Width	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	16mm	15mm	AB-3452	\$3.95	\$3.45	\$3.15

Weatherproof Buzzer 6-14VDC

Designed to withstand exposure to rain when mounted outdoors.

- Material: ABS UL-94 1/16" HB High Heat

Specifications	AB-3466
Operating Voltage	6-14VDC
Rated Voltage	12VDC
Current	35mA @ 12V (max)
SPL	85dB / 1m
Frequency	2.8kHz 500Hz

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
26mm	16mm	AB-3466	\$16.95	\$14.95	\$13.35

Dual Sound Piezo Industrial Type

Similar to SONALERT® earpiercing sound. Non inductive, operates from 1 - 13V DC. Now with both continuous tone and pulsed tone. Red & black for continuous, yellow and black for pulse tone. Ideal for almost all signalling applications.

Specifications	AB-3456
Operating voltage	1 - 13VDC
Rated voltage	12VDC
Current	Single tone 35mA, pulse 20mA
Frequency	2.9kHz
SPL	105dB/30cm single, 100dB/30cm pulse
Pulse Rate	2 - 7 pulse/sec
Mounting	1 x 3mm screw.

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
45mm	26mm	AB-3456	\$8.95	\$7.95	\$6.95

Piezo Reversing Alarm Automotive Type

Available with both continuous and pulse tone. These are a heavy duty panel mounted piezo. They are very rigidly made and terminals are via screw down or 6.35mm quick disconnect.

- Similar to SONALERT®

Specifications	AB-3464
Operating voltage	4 - 16V
Rated voltage	12V
Max Current @ 12V	25 single, 20 pulse mA
Frequency	2.9kHz
SPL @ 12V	95 single, 90 pulse dB
Pulse Rate @ 12V	0.8 - 1.2 pulse/sec
Mounting Hole	29mm

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
43.5mm	34.5mm	AB-3464	\$12.95	\$11.35	\$10.35

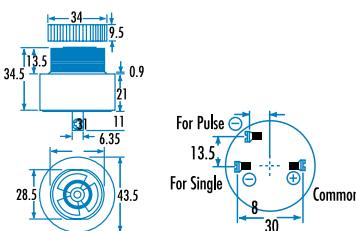
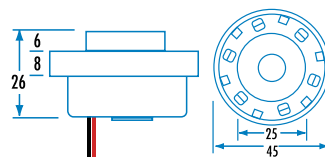
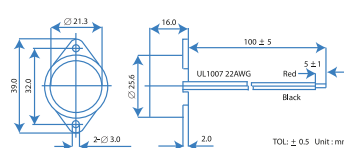
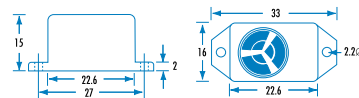
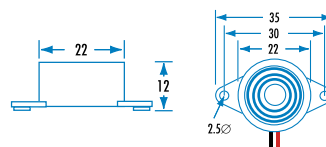
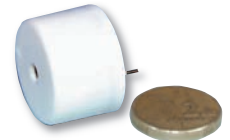
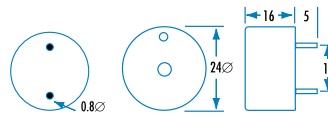
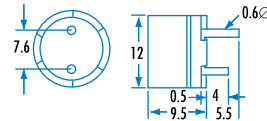
PIEZO TRANSDUCER

Low Profile Piezo Transducer

This electro-acoustic transducer contains no electronics but will transform AC voltages to sound pressure waves. It will also generate an AC voltage across its terminals when stimulated with a sound pressure wave.

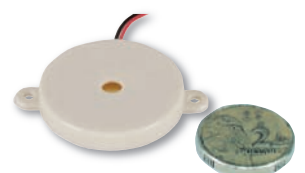
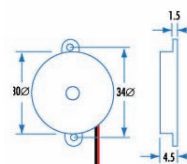
Specifications	AB-3440
Max. Input voltage	30V pp
SPL	105dB/30cm pulse
Resonant frequency	4,200 +/-500Hz
Resonant Resistance	300 ohm max.
Electrostatic Capacitance	20,000pf +/-30%.

↑ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
30mm	5mm	AB-3440	\$3.95	\$3.45	\$3.15



See page 383 for Tech Tip on Decibels

NERD
PERKS
2x
POINTS



Coin not included for size purposes only

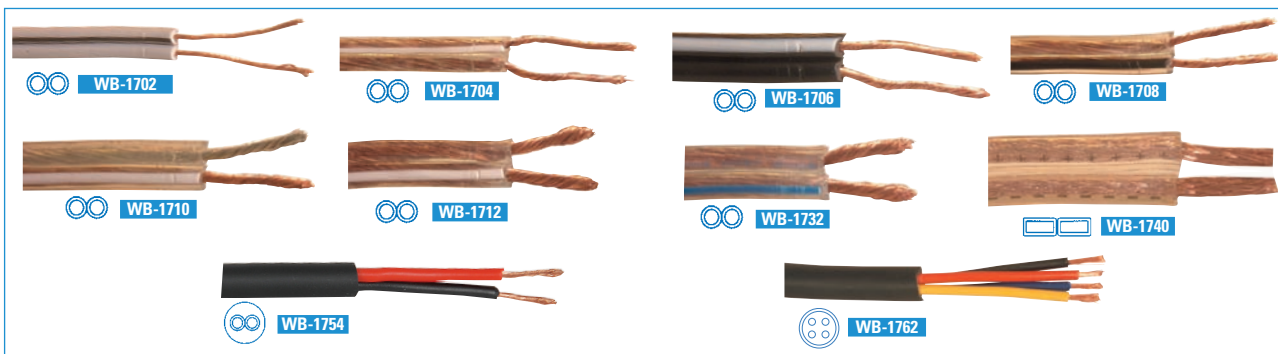
CABLE & CABLE HARDWARE

AC Mains Cable	200
Alarm Cable	199
Audio & Video Cable	197
Cable Accessories	205
Cable Ties	208
Coaxial Cable	198
Data Cable	200
DC Power Cable	202

Fasteners	209
Heatshrink	204
Hookup Wire	201
Solar Cable	203
Speaker Cable	196

Looking for our Connectors
Index - see page 211

SPEAKER CABLE



Everyone, at some stage of their life, needs to run a length of wiring to set up a speaker or two. Yes, you may be able to cobble some mains fig.8 flex to do the job - but really, let's get serious. The Jaycar range of speaker cable goes from quite modest to gi-normous!

At the modest prices shown below, why not just use the right stuff - with polarisation to boot - to get that job done, neatly & efficiently. Oh, and if you find yourself doing speaker wiring jobs a fair bit, you may be better off buying a spool. It's always there when you need it.

Light Duty Figure 8 14/0.14mm OFC

Ideal for Hi-Fi systems, intercoms, etc. Grey with black trace.
WB-1702

Extra Heavy Duty Figure 8 79/0.20mm OFC

Exactly half the wire content of the Jumbo cable but still 3 times thicker than the heavy duty cable. Clear with white trace.
WB-1712

Regular Duty Figure 8 14/0.20mm

Clear with white trace.
WB-1704

Jumbo Speaker Cable - 259/0.12mm OFC

For those who want top quality jumbo speaker cable.
Figure 8, 259/0.12mm strands in each side. Clear with blue trace.
WB-1732

Medium Duty Figure 8 19/0.18mm OFC

Suited to amplifiers up to 150 watts. 19 x 0.18mm. Black with white trace.
WB-1706

Flat Jumbo Speaker Cable - 203/0.12mm OFC

Ideal for car stereo or home wiring under the carpet. Clear with white trace.
WB-1740

Heavy Duty Figure 8 24/0.20mm OFC

Suited for speaker systems above 150 watts. 24/0.2mm. Clear with black trace.
WB-1708

Pro Audio Speaker Cable - 41/0.16mm OFC

Super flexible speaker cable. Separate colour-coded 18AWG red and black conductors in a single outer sheath. Conductors: 41 x 0.16 OFC. Jacket OD: 6mm
WB-1754

Extra Heavy Duty Figure 8 41/0.20mm OFC

Clear with white trace.
WB-1710

Core Pro Audio Speaker Cable - 40/0.16mm OFC

Super flexible for stage and professional applications. Four core OFC colour coded conductors. Conductors: 40 x 0.16mm OFC. Jacket OD: 7.5mm
WB-1762

Specifications	WB-1702	WB-1704	WB-1706	WB-1708	WB-1710	WB-1712	WB-1732	WB-1740	WB-1754	WB-1762
Conductor diameter	0.51mm x 2	0.74mm x 2	0.8mm x 2	0.97mm x 2	1.29mm x 2	1.8mm x 2	1.92mm x 2	1.7mm x 2	0.16mm x 2	0.16mm x 2
Conductor mm ²	0.215mm ² x 2	0.44mm ²	0.483mm ² x 2	0.75mm ² x 2	1.288mm ² x 2	2.5mm ² x 2	2.93mm ² x 2	2.3mm ² x 2	0.824mm ² x 2	0.824mm ² x 2
AWG	24 x 2	21 x 2	20 x 2	18/19 x 2	16 x 2	13 x 2	12/13 x 2	13/14 x 2	18	18
Stranding	(14 x 0.14mm OFC) x 2	(14 x 0.2mm OFC) x 2	(19 x 0.18mm OFC) x 2	(24 x 0.2mm OFC) x 2	(41 x 0.2mm OFC) x 2	(79 x 0.2mm OFC) x 2	(259 x 0.12mm OFC) x 2	(203 x 0.12mm OFC) x 2	(41 x 0.16mm OFC) x 2	(41 x 0.16mm OFC) x 2
Insulation	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Dimensions	1.8mm x 3.6mm	2mm x 4mm	2.6mm x 5.2mm	2.8mm x 5.6mm	3.2mm x 6.4mm	4.0mm x 8.0mm	4mm x 8mm	12.5mm x 8.5mm	6mm	7.5mm
Roll Length	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m

Sold by the metre or by the roll

↑ Roll Length	Cat.	Per Metre	100+ Rolls	500+ Rolls
100m	WB-1702	\$0.50	\$40.00	\$32.00
100m	WB-1704	\$0.70	\$55.00	\$45.00
100m	WB-1706	\$0.80	\$67.00	\$60.00
100m	WB-1708	\$1.20	\$89.00	\$79.00
100m	WB-1710	\$1.75	\$150.00	\$105.00

Sold by the metre or by the roll

↑ Roll Length	Cat.	Per Metre	100+ Rolls	500+ Rolls
100m	WB-1712	\$2.70	\$209.00	\$179.00
100m	WB-1732	\$4.10	\$340.00	\$295.00
100m	WB-1740	\$3.50	\$285.00	\$235.00
100m	WB-1754	\$1.95	\$165.00	\$125.00
100m	WB-1762	\$3.90	\$329.00	\$255.00

SPEAKER CABLE - SMALL ROLLS



Light Duty Figure 8

14/0.14mm Figure 8. Grey with black trace.

WB-1703

Heavy Duty Figure 8

24/0.20mm Figure 8 clear with black trace.

WB-1709

Extra Heavy Duty

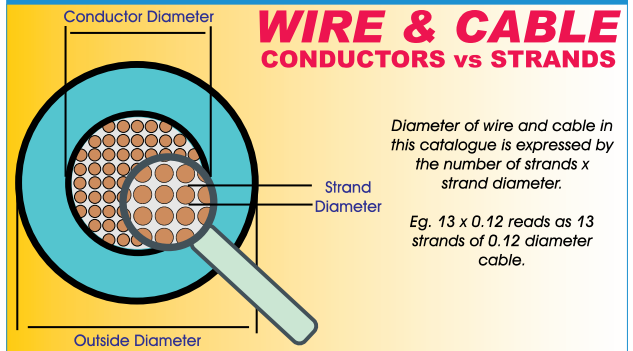
79/0.2mm figure 8. Clear with white trace.

WB-1713

	WB-1703	WB-1709	WB-1713
AWG	24 x 2	18 x 2	13 x 2

Roll Length	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	WB-1703	\$12.95	\$11.35	\$10.35
30m	WB-1709	\$32.95	\$29.45	\$26.50
30m	WB-1713	\$74.95	\$67.50	\$59.00

TECH TALK!



SCREENED AUDIO & VIDEO CABLE

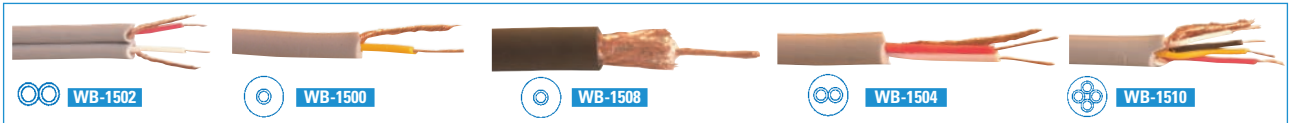


Figure 8 Twin Screened

Twin grey PVC covered individually screened conductors. Screens electrically separated.

WB-1502

Single Screened Audio

Single screened grey PVC covered, light duty cable. Ideal for patch cords, small microphones, amplifier wiring, etc.

WB-1500

Single Core OFC Screened

Twin grey PVC covered individually screened conductors. Screens electrically separated.

WB-1508

Braid	96/0.10 + Alum
Capacitance	66.8pF/m
Impedance	65Ω@1m

2 Core Round

Twin screened pair (not balanced). Enclosed in a thick wall PVC jacket.

0.127/7 + 0.12/40

WB-1504

4 Core Round

4 conductors each screened and encased in one PVC covering. Ideal for DIN plug and socket wiring. Screens electrically common to all conductors.

WB-1510

Specifications	WB-1502	WB-1500	WB-1508	WB-1504	WB-1510
Conductor diameter	0.32mm x 2	0.32mm x 2	0.32mm x 2	0.32mm x 2	0.32mm x 4
Conductor mm ²	0.08mm ² x 2	0.08mm ² x 2	0.08mm ² x 2	0.08mm ² x 2	0.08mm ² x 4
AWG	28 x 2	28 x 2	22	28 x 2	28 x 4
Max Temp.	70°C	70°C	60°C	70°C	70°C
Stranding	28 x 0.12mm	28 x 0.12mm	45/0.12mm	40 x 0.12mm	28 x 0.12mm
Insulation	PVC	PVC	OFC/PEF	PVC	PVC
Resistance (20°C)	0.2245 ohm/m	0.2245 ohm/m	0.0365 ohm/m	0.002245 ohm/m	0.2245 ohm/m
Dimensions	4mm x 8mm	3mm	6mm	3.5mm	4.5mm
	(PVC + 7 x 0.12mm OFC) x 2	(PVC + 7 x 0.12mm OFC)	45/0.12 + foil + 6/0.12 x 16	(PVC + 7 x 0.12mm OFC) x 2	(PVC + 7 x 0.12mm OFC) x 4
Roll Length	100m	100m	100m	100m	100m

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1502	\$1.00	\$85.00	\$65.00
100m	WB-1500	\$0.55	\$45.00	\$35.00
100m	WB-1508	\$2.70	\$229.00	\$175.00

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1504	\$0.90	\$67.00	\$55.00
100m	WB-1510	\$1.30	\$105.00	\$80.00



Figure 8 OFC Screened Audio

High quality audio cable. As used on our best leads.

WB-1506

Professional RGB Video Cable

This is a RGB video cable with 3 screened cables for red, green and blue video. Inside cable insulation is colour coded and suitable for video signals. Each cable is 6mm diameter. Individual conductors can be split and used for individual composite video signals if required.

WB-1559

Professional S-Video

High Quality cable for video. S-Video uses 4 pin mini DIN plugs. This is the same cable as used in our S-Video video cables. Ideal for home cinema.

WB-1556

Specifications	WB-1506	WB-1559	WB-1556
Inner Conductor	0.12mm OFC	0.12mm OFC	0.12mm x 7 OFC
Screen	14mm aluminium foil longitudinal wrapped shield	14mm alumin foil	0.1mm x 46 OFC spiral
AWG	23	23	28
Braid	0.12mm/6 x 16 tinned OFC copper	0.12mm/6 x 16 tinned OFC	0.12mm/7 + 1/-0 OFC copper
Capacitance	75pF/m between conductor & shield	75pF/m between conductor & screen	85 pF/m between conductor and shield
Insulator	Red & White	3.1mm FPE coloured	1.5mm FPE white
Outer Jacket	6mm / FPE	PVC 6 x 18mm	PVC 6.5 dia non migration
Roll Length	40m	50m	100m

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
40m	WB-1506	\$4.50	\$155.00	\$119.00

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
50m	WB-1559	\$5.15	\$215.00	\$180.00
100m	WB-1556	\$1.75	\$140.00	\$120.00

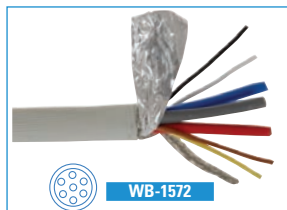
CABLE & CONNECTORS

AV SIGNAL & RF COAXIAL CABLES

SCREENED AUDIO & VIDEO CABLE - PROFESSIONAL GRADE

Professional VGA Cable

VGA cable suitable for installations of projectors, TVs or monitors in AV rooms, computer, conference or training rooms etc. Intended to be used with VGA Wall Plate Cat. PT-0476.



RGB Conductors	
Center Conductor	7 x 0.127mm tinned copper
Dielectric	1.60mm foam
Braiding	40 x 0.12mm tinned copper
Jacket	2.5mm PVC
Sync/other conductors	
7 x 0.2mm tinned copper	
Jacket	1.1mm PVC
Shielding	
Screen	30 x 0.03mm Al foil
Drain	7 x 0.2mm tinned copper
Braiding	92 x 0.12mm tinned copper
Jacket	7.8mm PVC UL94 VW-1
AWG	28

Roll Length	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	WB-1572	\$89.95	\$80.95	\$71.95

Professional Audio & Video

Triple cable, 2 for audio and the thicker one for video. It is the same cable that's used in our 3 RCA to 3 RCA pre-made cables. 2 Audio Cables.

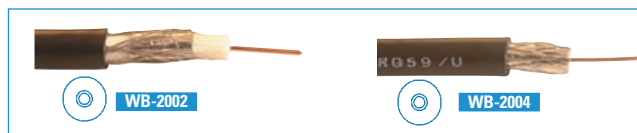


Two Audio Cables	
Inner conduct	20 x 0.12mm OFC
Insulator	1.6mm FPE Red/White
Screen	40 x 0.12mm OFC
Jacket	PVC 3.6mm dia non migration
Video Cable	
Inner conduct	24 x 0.12mm OFC
Insulator	2.5mm FPE White
Screen	4 x 16 x 0.12mm OFC
Jacket	PVC 6mm dia non migration
AWG	24

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
50m	WB-1554	\$3.50	\$130.00	\$105.00

75 OHM COAXIAL TELEVISION CABLE



Belden Brand 75 Ohm Domestic TV Coax

This is RG59 with an OD of 6mm. Belden No. 9275. WB-2002

75 Ohm RG59 Gas Injected Foam Coax

New generation TV Coax. Both a braid & foil, provides 100% screening.

- Won't get water logged underground
- Black in colour
- Outside diameter 6mm

WB-2004

Specifications	WB-2002	WB-2004
Inductance	.097uH/300mm	-
Capacitance	16.2pF/300mm	-
Attenuation	100MHz - 2.6db/30m, 300MHz - 4.45db/30m, 600MHz - 6.20db/30m	-

TECH TALK!

We do not sell cheap 3C-2V type TV coax. It's screening is inadequate for acceptable performance IN TODAY'S DIGITAL TV ENVIRONMENT

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
152m	WB-2002	\$1.15	\$139.00	\$105.00
100m	WB-2004	\$0.70	\$55.00	\$45.00

RG6 Quad Shield 75 Ohm Coax

Features a solid 18AWG copper clad steel centre conductor, gas injected foam dielectric and four separate shielding layers to eliminate any outside interference.

WB-2006

Belden Brand Quad Shield RG6 75 Ohm Coax

Used by Pay-TV installers. Quality Belden brand. We have repackaged in Australia on 100m reels. Normally this is only available in 1000 foot boxes. It features a solid 18AWG steel centre conductor, copper plated, gas injected polyethylene foam insulation (to keep water out), Black PVC jacket, plus 4 layers of screening: a combination of aluminium foils and braiding. 100% sweep tested 5MHz-1GHz.

WB-2009

NOTE

Foxtel Approved

Specifications	WB-2006	WB-2009
Centre Conductor	18AWG copper clad steel	18AWG steel Cu plated 1.016 dia
Core O.D	4.57mm	4.572mm
Jacket O.D	7.7mm	7.569mm
Nom. Impedance	75Ω	75Ω
Nom. capacity	16.2pf/ft	16.2pf/ft
Vel. of prop	82%, 54pf/m	82%, 53.1pf/m
First Shielding	Bonded aluminium polyester tape	-
Second Shielding	Tinned annealed copper	-
AUSTAR Approval	A00458	F 30456
Foxtel Approval	F 30440	F 30456
TELSTRA Approval	014857	-
OPTUS Approval	SAP4868	-
Belden Part	-	1189A

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-2006	\$1.20	\$80.00	\$65.00
100m	WB-2009	\$1.80	\$100.00	\$85.00

75 OHM COAXIAL TELEVISION CABLE - SMALL ROLLS



75 Ohm RG59 Gas Injected Foam Coax

A 30m roll is generally a common length for a domestic TV antenna installation. Save over buying by the metre, and a small roll is easy to work with.

WB-2005 (Black) & WB-2001 (White)

Roll Length	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	Black WB-2005	\$17.95	\$15.95	\$14.35
30m	White WB-2001	\$19.95	\$17.95	\$15.90

Belden Brand Quad Shield RG6 75 Ohm Coax

30m roll of the WB-2009 Belden Coax shown above.

WB-2014

AWG	18
Austar / Foxtel Approval	F 30456

NOTE

Foxtel Approved

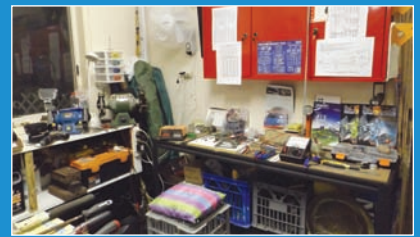


Roll Length	Cat	1+ Rolls	4+ Rolls	10+ Rolls
30m	Black WB-2014	\$44.95	\$40.45	\$35.90

PROFESSIONAL MICROPHONE CABLE

The best quality microphone cable for all P.A. and stage use. Flexible black matt finish PVC low noise cable with tinned copper screening.

See CCTV cable WB-2017 on page 199



Workbench sent to us by: Geoff Jaycar Store: Port Macquarie

It may be small but it is productive, for being in the end of a single car garage. As for tidiness, well what can I say!!!!!! Regards. Geoff.

For more details, visit:
www.jaycar.com.au/workbench



2 Core Screened

High quality mic cable for PA, stage or semi professional use. 60/0.08 x 2 core. Conductive PE insulation on conductors provides improved shielding. Cotton filled and tissue wrapped. Braided Shield: 16 x 9/0.10 tinned copper (144/0.10). Outer Jacket 6.0mm diameter

WB-1530

4 Core Screened

Conductors: 26/0.10 x 4. Conductive PE insulation on conductors provides improved shielding. cotton filled and tissue wrapped. Braided shield: 16 x 8/0.10 tinned copper (128/0.10). Outer Jacket 6.0mm diameter

WB-1540

Sold by the metre or by the roll

Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	18	WB-1530	\$2.85	\$239.00	\$185.00
100m	22	WB-1540	\$2.70	\$215.00	\$185.00

COMMUNICATION & TELEPHONE CABLE

ACMA Approved



50 Ohm RG58 C/U Networking

As used for computer networking.

WB-2012

50 Ohm RG58/U

Suited up to 500MHz, ideal for CB, marine, amateur and two-way radio.

WB-2010

50 Ohm RG213/U

Communication cable commonly used in UHF.

WB-2015

2 Pair (4 Wire)

Flat cable. Ivory colour, 4 x 7 x 0.12mm

WB-1620

3 Pair (6 Wire)

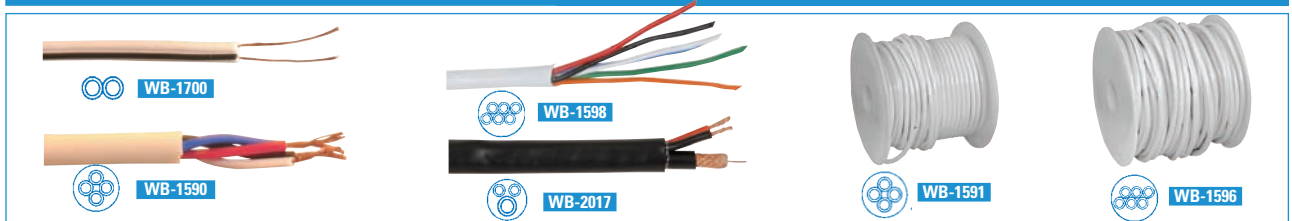
Flat cable. Ivory colour, 6 x 7 x 0.12mm

WB-1622

Sold by the metre or by the roll

Conductors	AWG	OD	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
19/0.18 + 112/0.12mm	23	5mm	100m	WB-2012	\$1.95	\$165.00	\$135.00
19/0.18 + 112/0.12mm	23	5mm	100m	WB-2010	\$1.45	\$120.00	\$100.00
7/0.75 + 216/0.12mm	23	10.2mm	100m	WB-2015	\$4.50	\$379.00	\$292.00
7/0.16mm	28	5mm	100m	WB-1620	\$0.70	\$59.00	\$45.00
7/1.16mm	28	7mm	100m	WB-1622	\$0.90	\$79.00	\$59.00

INTERCOM / ALARM / CCTV CABLE



Bell Wire

Ideal for doorbells, intercoms, or anywhere where a really thin figure 8 cable is required.

7/0.10mm x 2

WB-1700

Alarm - 4 Core

Flexible stranded conductors, 7 x 0.16 in tough outer sheath.

WB-1590

Alarm - 6 Core A-Tick Approved

Austel approved alarm cable. Use with alarms that have diallers.

7/0.2 x 6 flexible stranded conductors in tough outer sheath.

OD 5.1mm. Colour white

WB-1598

Sold by the metre or by the roll

Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	30	WB-1700	\$0.25	\$21.00	\$16.00
100m	25	WB-1590	\$0.80	\$65.00	\$45.00
100m	24	WB-1598	\$1.75	\$129.00	\$119.00
100m	25	WB-2017	\$1.60	\$139.00	\$105.00

RG59 / Power Cable

Combines RG59 coaxial cable and 16G power cable. Ideal for CCTV and surveillance applications.

OD: 70 x 7.5mm

WB-2017 Sold by the metre or by the roll

Alarm Cable

7 x 0.16mm, 4 core

WB-1591 Sold by the 30m roll

Alarm Cable - A-Tick Approved

Austel approved. For use in alarms with diallers. 6 x 7/0.2 flexible stranded conductors in tough outer sheath.

WB-1596 Sold by the 30m roll

ACMA Approved

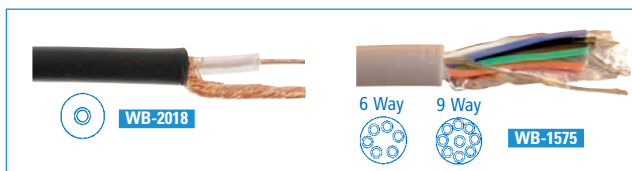
Roll Length	AWG	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	25	WB-1591	\$21.95	\$19.70	\$17.55
30m	24	WB-1596	\$44.95	\$40.45	\$35.90

RELATED PRODUCTS

<p>FROM \$12.95 TH-1897</p> <p>CUTTERS P48</p>	<p>FROM \$1.45 WH-5530</p> <p>HEATSHRINK P204</p>	<p>FROM \$19.95 TH-1820</p> <p>COAX STRIPPER P52</p>	<p>FROM \$19.95 TH-1935</p> <p>CRIMP TOOLS P51</p>	<p>FROM \$2.45 HP-0680</p> <p>CABLE CLIPS P210</p>
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CABLE & CONNECTORS DATA & AC POWER CABLE

COMPUTER / DATA CABLE



50 Ohm RG174U Coax Cable

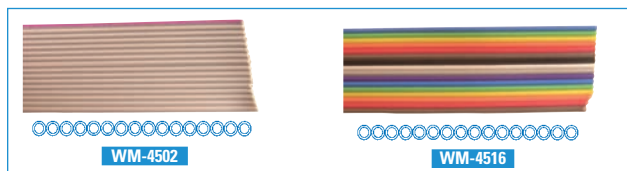
Handy 20m length of unterminated RG174/U cable as commonly used in Wi-Fi and amateur radio installations. Tinned copper braid

Impedance	50 ohm
Insulation	Polyethylene (PE)
AWG	28
Roll Length	20m

Roll Length	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
RG174/U 20m	WB-2018	\$24.95	\$21.20	\$16.20

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
6 Way 100m	WB-1575	\$1.90	\$159.00	\$125.00
9 Way 100m	WB-1578	\$2.20	\$189.00	\$145.00



IDC Ribbon

Designed for IDC connectors. Grey in colour with red trace. WM-4502, WM-4504, WM4508

	IDC Ribbon	Rainbow
Pitch	1.27mm (0.05")	1.27mm (0.05")
Strands	7/0.127mm	7/0.127mm
AWG	28	28
Roll Length	33m	33m

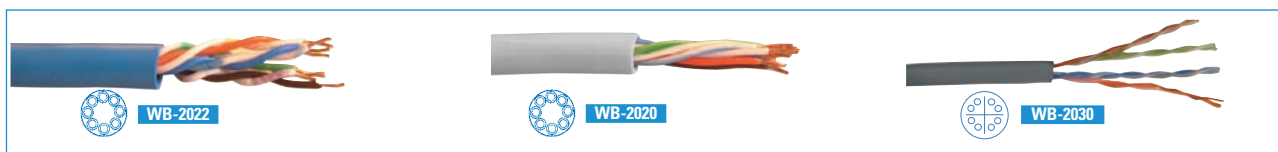
Rainbow Cable 16 Core

Colour coded strands of insulated conductor bonded together in a flat cable. Ideal for rewiring looms, can be split and each individual wire used. Same rating as 13 x 0.12mm light duty hook-up wire.

WM-4516

Sold by the metre or by the roll

Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
16 Way 33m	WM-4502	\$1.85	\$48.00	\$41.00
26 Way 33m	WM-4504	\$2.95	\$82.00	\$64.00
50 Way 33m	WM-4508	\$5.95	\$169.00	\$129.00
16 Core 33m	WM-4516	\$3.50	\$95.00	\$79.00



Cat 5E Solid Network

Single strand Cat 5e, used for long runs in permanent installations.

- A-Tick approved, Blue in colour, 100MHz

POLYWRAPPED 30M PACK - NO ROLL

WB-2023

100M ROLL
WB-2022

Sold by the metre, 30m pack or by the roll



ACMA Approved

Roll Length	AWG	Cat.	1+ Roll	4+ Rolls	10+ Rolls
30m	24	WB-2023	\$39.95	\$35.90	\$31.90
Roll Length	AWG	Cat.	Per Metre	100+ Rolls	500+ Rolls
100m	24	WB-2022	\$1.45	\$109.00	\$95.00

Cat 5e 8 Core Stranded Network

An ACMA approved high quality cable for patch leads and short runs. Consists of 4 twisted pairs, each conductor 7/0.20mm copper wire, polypropylene insulated with a tough ivory colour PVC jacket. 100MHz.

WB-2020



ACMA Approved

Cat 6 Solid Core UTP Network

Designed for reliable high-speed network installations. Suitable for IDC terminations on patch panels and wall plates. 4 x 23 AWG solid core twisted pairs. PVC spline.

WB-2030



ACMA Approved

Sold by the metre or by the roll

Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	24	WB-2020	\$1.45	\$125.00	\$94.00
100m	23	WB-2030	\$1.75	\$149.00	\$115.00

AC MAINS CABLE



Two Core Mains Flex

Two-core mains flex cable (no earth) with a white outer PVC jacket. Suitable for general 240V appliances not requiring an earth. Safety Approval number: Q070451.

WB-1560

Three Core Mains Flex

Standard 240V 3 core mains flex power cable with a white outer PVC jacket. Suitable for extension cables and general 240V appliances where an earth is required. Safety Approval number: Q080451.

WB-1562

Twin & Earth Wiring - Lighting

Twin & Earth Flat Cable
WB-1565

Twin & Earth Wiring - Power

Twin & Earth Flat Cable
WB-1568

Sold by the metre or by the roll

Conductor Area	Current	Stranding	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
0.75mm ² x 2	7.5A	24/0.2	100m	WB-1560	\$1.25	\$99.00	\$80.00
1.0mm ² x 3	10A	32/0.2	100m	WB-1562	\$2.85	\$229.00	\$185.00
1.0mm ² x 2+E	10A (Lights)	1/1.13mm	100m	WB-1565	\$1.55	\$125.00	\$100.00
2.5mm ² 2+E	20A	7/0.67	100m	WB-1568	\$2.50	\$199.00	\$162.00

RELATED PRODUCTS

<p>FROM \$99.95 XC-5083</p> <p>CABLE TRACER P323</p>	<p>FROM \$69.95 TH-1939</p> <p>CRIMP TOOL TESTER P323</p>	<p>FROM \$5.95 YN-8015</p> <p>KEystone WALL PLATE P227</p>	<p>FROM \$4.95 YN-8028</p> <p>KEystone SOCKET P227</p>	<p>FROM \$22.95 TH-1740</p> <p>PUNCHDOWN TOOL P343</p>
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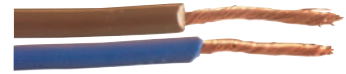
GENERAL PURPOSE POWER CABLE



LIGHT DUTY



HEAVY DUTY



EXTRA HEAVY DUTY

Flexible Light Duty

13 x 0.12mm. Suited for all general purpose wiring. 8 different colours available. PVC insulation.

Rated Current	0.6A	Overall Dia.	1.8mm
Conductor Dia.	0.42mm	AWG	25
Conductor mm ²	0.147mm ²	Roll Length	100m
Stranding	13 x 0.12mmTC		
Red	WH-3010	Black	WH-3011
Orange	WH-3013	Yellow	WH-3014
Blue	WH-3016	White	WH-3017
		Green	WH-3015

Sold by the metre or by the roll

↑	Per Metre	100+ Rolls	500+ Rolls
All Types	\$0.25	\$15.00	\$12.00

Heavy Duty

24 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	7.5A	Overall Dia.	2.4mm
Conductor Dia.	0.97mm	AWG	18/19
Conductor mm ²	0.75mm ²	Roll Length	100m
Stranding	24 x 0.2mm		
Red	WH-3040	Black	WH-3041
Green	WH-3042		

Sold by the metre or by the roll

↑	Per Metre	100+ Rolls	500+ Rolls
All Types	\$0.55	\$42.00	\$35.00

Extra Heavy Duty

32 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	10A	Overall Dia.	2.8mm
Conductor Dia.	1.15mm	AWG	17
Conductor mm ²	1mm ²	Roll Length	100m
Stranding	32 x 0.2mm		
Brown	WH-3050	Blue	WH-3052

Sold by the metre or by the roll

↑	Per Metre	1+ Rolls	5+ Rolls
All Types	\$0.80	\$72.00	\$64.00

HOOK-UP CABLE



Flexible Light Duty - 25 Metre

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current rating	0.6A
Insulation	PVC
Resistance (20°C)	0.1365 ohm/m
Max temp.	70°C
AWG	26

Red	WH-3000	Black	WH-3001	Brown	WH-3002
Orange	WH-3003	Yellow	WH-3004	Green	WH-3005
Blue	WH-3006	White	WH-3007		

↑	1+ Rolls	4+ Rolls	10+ Rolls
Sold Per Roll	\$5.50	\$4.90	\$4.30



WH-3009

Flexible Light Duty Reel Packs of 8 - 25 Metres

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current rating	0.6A
Insulation	PVC
Stranding	13 x 0.12mmTC
Resistance (20°C)	0.1365 ohm/m
Max temp.	70°C
AWG	26
Overall Dia.	1.8mm

↑	Cat.	1+ Pack	4+ Packs	10+ Packs
	WH-3009	\$34.95	\$31.45	\$28.50



WH-3025

Hook Up Cable Packs - 2 Metre Lengths

2 metres of 8 different colours of 10 x 0.12mm hook-up cable. Total of 16m of cable.

Lengths	2 metres
Qty	8 pcs
Stranding	10 x 0.12mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	WH-3025	\$4.95	\$4.45	\$3.90

SPECIAL APPLICATION

Nichrome Resistance Wire - 4 Metres

Used for wiring heating elements such as toasters, etc. 80% nickel, 20% chromium. Resistance 13.77 ohm per metre.

- Size 28 B&S (0.315mm).

LENGTH 4 METRES



↑	Roll Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	4m	WW-4040	\$4.95	\$4.45	\$3.90

Wire Wrap on Spools - 33 Metres

This Kynar wire is high quality silver plated.

- Available in three colours.
- Supplied on a 33 metre reel



↑	Roll Length	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
	33m	Red	WW-4344	\$15.95	\$14.35	\$12.70
	33m	Black	WW-4345	\$15.95	\$14.35	\$12.70
	33m	Blue	WW-4346	\$15.95	\$14.35	\$12.70

COPPER WIRE

Enamelled Copper Wire

This soft copper wire is coated in a high dielectric strength varnish. You can solder through the enamel, but we recommend that you lightly sandpaper the wire ends with 200+ grit paper to ensure good solder adhesion, especially with RoHS type solder.



mm	B&S	Wght	AWG	Approx Lm	Cat.	1+ Roll	4+ Rolls	10+ Rolls
0.25	30	25g	33	58	WW-4012	\$6.95	\$6.25	\$5.50
0.315	28	25g	31	40	WW-4013	\$6.95	\$6.25	\$5.50
0.4	26	25g	28	22	WW-4014	\$6.95	\$6.25	\$5.50
0.5	24	100g	25	57	WW-4016	\$11.95	\$10.75	\$9.55
0.63	22	100g	23	36	WW-4018	\$12.95	\$11.35	\$10.35
0.8	20	100g	21	22	WW-4020	\$12.95	\$11.35	\$10.35
1.0	18	100g	19	14	WW-4022	\$10.95	\$9.75	\$8.75
1.25	16	100g	18	9	WW-4024	\$11.95	\$10.75	\$9.55

Tinned Copper Wire

Two handy sizes of AWG 22 (0.71mm dia.) for wire links etc.



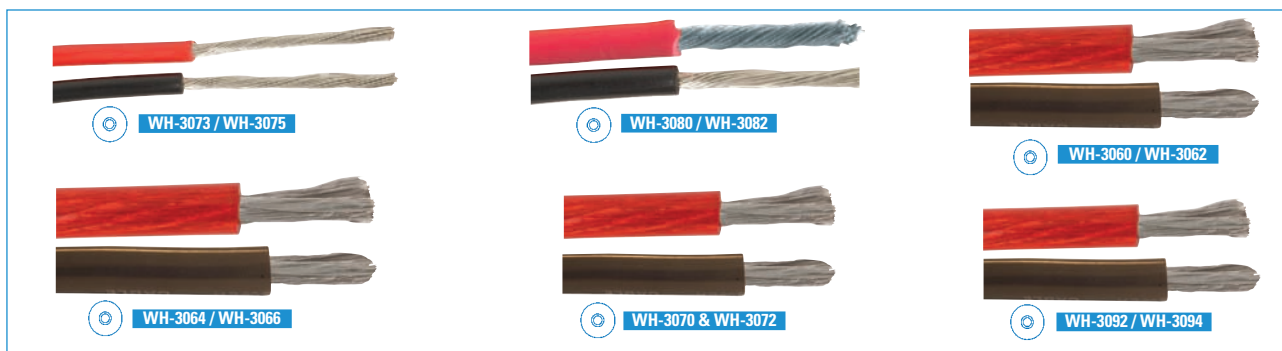
↑	Weight	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
	25g	WW-4032	\$12.95	\$11.35	\$10.35
	100g	WW-4030	\$29.95	\$26.90	\$23.70

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics: PO Box 7172 Silverwater, NSW 1811
or email to catalogue@jaycar.com

HIGH CURRENT, GENERAL PURPOSE, AUTO & MARINE - SINGLE CORE



15 Amp Tinned

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications.
WH-3073 & WH-3075

25 Amp Tinned

Ideal for most automotive wiring. Tinned for corrosion prevention in marine applications.
WH-3080 & WH-3082

56A 8 Gauge OFC High Current

Good for all but the biggest car amplifiers etc.
WH-3060 & WH-3062

What does "OFC" mean? It means OXYGEN FREE COPPER. It's a purer form of copper metal.

110A 4 Gauge OFC Super High Current

Run from your battery to distribution boxes and then the 8GA to amps etc.
WH-3064 & WH-3066

160A 2 Gauge OFC Ultra High Current

Run from your car battery to distribution boxes and then 8GA or 4GA to amps, etc.
WH-3070 & WH-3072

200A 0 Gauge OFC Ultra High Current

Run from your battery to distribution blocks and then 2GA, 4GA or 8GA to your amplifiers or other power equipment for seriously high current applications.
WH-3092 & WH-3094

Specifications	WH-3073 & WH-3075	WH-3080 & WH-3082	WH-3060 & WH-3062	WH-3064 & WH-3066	WH-3070 & WH-3072	WH-3092 & WH-3094
Current Capacity	15A	25A	56A	100A	150A	200A
Conductor mm ²	1.84mm ²	2.9mm ²	8.31mm ²	10mm ²	13.5mm ²	15.8mm ²
Conductor Material	Tinned Copper	Tinned Copper	OFC	OFC	OFC	OFC
AWG	15	12	8	4	2	0
Stranding	26 x 0.3mmTC	41 x 0.3mmTC	7 x 95/0.12mm	7 x 7 x 34/0.127mm	145 x 19/0.12mm	7 x 7 x 81/0.12mm
Insulation	PVC	PVC	PVC	PVC	PVC	PVC
Resistance (20°C)	0.0108 ohm/m	0.0059 ohm/m	0.00252Ω/m	0.00097Ω/m	0.0007Ω/m	350 micro ohms/m
Wire Dia.	1.53mm	1.99mm	4.05mm	7.70mm	9.6mm	12.2mm
Overall Dia.	3.2mm	4.5mm	7.52mm	21.10mm	12.0mm	15mm
Roll Length	100m	100m	100m	50m	30m	25m

Sold by the metre or by the roll

↑	Colour	Roll Length	Cat.	Per Metre	100+ Rolls	500+ Rolls
	Red	100m	WH-3073	\$1.25	\$95.00	\$79.00
	Black	100m	WH-3075	\$1.25	\$95.00	\$79.00
	Red	100m	WH-3080	\$2.55	\$225.00	\$189.00
	Black	100m	WH-3082	\$2.55	\$225.00	\$189.00
	Red	100m	WH-3060	\$4.15	\$365.00	\$309.00
	Black	100m	WH-3062	\$4.15	\$365.00	\$309.00

Sold by the metre or by the roll

↑	Colour	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
	Red	50m	WH-3064	\$9.95	\$439.00	\$375.00
	Black	50m	WH-3066	\$9.95	\$439.00	\$375.00
	Red	30m	WH-3070	\$16.95	\$449.00	\$379.00
	Black	30m	WH-3072	\$16.95	\$449.00	\$379.00
	Red	25m	WH-3092	\$24.95	\$549.00	\$469.00
	Black	25m	WH-3094	\$24.95	\$549.00	\$469.00

HIGH CURRENT, GENERAL PURPOSE, AUTO & MARINE - HANDY PACKS

7.5 Amp Tinned - Handy Packs - 10 Metre Roll

Flexible heavy duty tinned copper cable suitable for general purpose wiring up to 250V supplied on an easy to use handy pack 10m reel. Suitable for use in marine applications.

Specifications	All
Rated Current	7.5A
Conductor Dia.	0.97mm
Conductor mm ²	0.75mm ²
AWG	18/19
Stranding	24 x 0.2mmTC
Insulation	PVC
Resistance (20°C)	0.0237 ohm/m
Overall Dia.	2.4mm
Roll Length	10m



↑	Colour	Roll Length	Cat.	1+ Roll	4+ Rolls	10+ Rolls
	Red	10m	WH-3045	\$5.25	\$4.70	\$4.20
	Black	10m	WH-3046	\$5.25	\$4.70	\$4.20
	Green	10m	WH-3047	\$5.25	\$4.70	\$4.20

7.5 Amp Tinned - Heavy Duty Silicone Handy Packs - 10 Metre Roll

Silicone rubber insulation, very flexible with high temperature rating. Max temperature 180°C.



↑	Colour	Roll Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	Red	10m	WH-3035	\$12.95	\$11.35	\$10.35
	Black	10m	WH-3037	\$12.95	\$11.35	\$10.35

15 Amp Tinned - Handy Packs - 10 Metre Roll

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications. Supplied on an easy to use 10m handy pack reel and available in three colours.

- Tinned copper cable

Specifications	All
Rated Current	15A
AWG	16
Stranding	26 x 0.3mm
Insulation	PVC
Max Temp.	80°C
Overall Dia.	3.3mm
Roll Length	10m



↑	Colour	Roll Length	Cat.	1+ Roll	4+ Rolls	10+ Rolls
	Red	10m	WH-3054	\$11.95	\$10.70	\$9.50
	Black	10m	WH-3055	\$11.95	\$10.70	\$9.50
	Green	10m	WH-3056	\$11.95	\$10.70	\$9.50

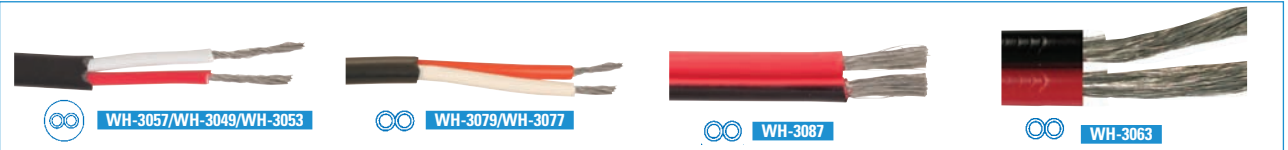
For light duty Hook-up Cable see previous page

TECH TALK!

WHY OUR WIRE IS TINNED

We now supply all multistrand power cable with the copper conductors tinned. When you put a coating of pure tin over the copper, you prevent the copper from oxidising. This oxidising can prevent you from achieving a good, tinned solder connection to the wire. This is particularly important in marine and car installations. We have not increased our price to you for this step up in quality.

HIGH CURRENT, GENERAL PURPOSE, MARINE & AUTOMOTIVE - 2 CORE



7.5 Amp 2 Core Tinned DC Power Cable

Double insulated 2 core power cable suitable for automotive and boating applications. Tinned copper cable suitable for use in marine applications. Sold by the metre or 10m handy pack or 30m roll pack. PVC Insulation. Resistance (20°C): 0.024 ohm/m. Max Temp.: 80°C

- Dimensions: 5(W) x 3.2(H)mm
WH-3053, WH-3049 & WH-3057

15 Amp Tinned

Double insulated 2 core tinned power cable suitable for automotive and marine applications (PVC + 48 x 0.2mm²) x 2. WH-3077 is 30m roll pack of WH-3079. PVC Insulation. Resistance (20°C): 0.0123 ohm/m. Max Temp.: 80°C.

- Dimensions: 4.5 x 7.2mm
WH-3077 & WH-3079

25 Amp Figure-8 DC Auto Power Cable - by the metre

Ideal for most automotive, marine, or general purpose wiring. Twin core for positive and negative connections. Tinned copper conductors. PVC Insulation. Resistance (20°C): 0.0053 ohm/m. Max Temp.: 80°C.

- 3.5mm (outside dia)
WH-3087

56 Amp Tinned - by the metre

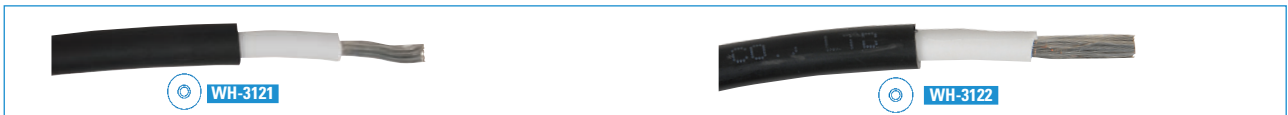
For higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation. Resistance: (20°C): 0.0024 ohm/m. Max Temp.: 80°C

- Dimensions: 6.7 x 13.6mm
WH-3063

Sold by the metre or by the roll

Rated Current	Conductor Dia	Conductor mm ²	Stranding	AWG	Roll Length	Cat.	Per Metre	100+ Rolls	500+ Rolls
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	100m	WH-3057	\$1.40	\$109.00	\$89.00
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	10m	Cat. WH-3049	1+Roll \$12.95	4+ Rolls \$11.35	10+ Rolls \$10.35
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	30m	WH-3053	\$39.95	\$35.90	\$31.90
15A	1.45mm x 2	1.5mm ² x 2	(48 x 0.2mm ²) x 2	16	100m	Cat. WH-3079	Per Metre \$2.50	100+ Rolls \$185.00	500+ Rolls \$159.00
15A	1.45mm x 2	1.5mm ² x 2	(48 x 0.2mm ²) x 2	16	30m	Cat. WH-3077	1+Roll \$69.95	4+ Rolls \$62.95	10+ Rolls \$55.95
25A	3.3mm x 2	2.90mm ²	41/0.30mm (per conductor)	12	100m	WH-3087	\$4.35	\$389.00	\$349.00
56A	3.2mm x 2	8mm ² x 2	(7 x 101 x 0.12mm ²) x 2	8	50m	WH-3063	\$8.20	\$359.00	\$309.00

SOLAR SYSTEM CABLE



UV Stabilised Solar Power Cable - 100 Metre Cable

Very tough cable, specifically for the rigours of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.

Specifications	Both
Conductor material	Tin plate copper, Class 5
Insulation material	XLPC
TUV certification	2 PfG 1161/01.06

TÜV CERTIFIED

See page 251 for
Solar Connectors

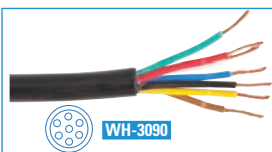
Sold by the metre
or by the roll

Rated Current	Conductor Area	Rated Voltage	Temp. Range	Rating	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
58A	100m x 4.0mm ²	1000VDC	-40 to +125°C	IP65	100m	WH-3121	\$4.95	\$435.00	\$369.00
76A	100m x 6.0mm ²	1000VDC	-40 to +125°C	IP65	100m	WH-3122	\$7.95	\$699.00	\$595.00

TRAILER CABLE

Trailer Cable - 10 Metre Roll

A 10 metre length of standard 5 or 7 conductors sheathed in a tough black PVC jacket. See page 203 or website for the conductor colours and a range of trailer plugs.



Specifications	WH-3091	WH-3090
Rated Current	5A per conductor	5A per conductor
Cores	5	7
Total Diameter	6.3mm	8.2mm

Sold by the metre or by the roll

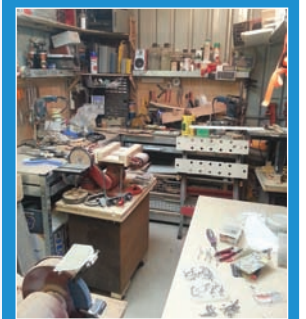
Roll Length	Cat.	Per Metre	4+ Rolls	10+ Rolls
5 Core 10m	WH-3091	\$39.95	\$35.15	\$29.95
7 Core 10m	WH-3090	\$44.95	\$39.55	\$33.70

Workbench sent to us by: Chris Jaycar Store: Springvale

One corner of my work shed, where I play with wood, metal and electronics.



For more details, visit:
www.jaycar.com.au/workbench



RELATED PRODUCTS

<p>FROM \$7.95 WH-5525</p> <p>HEATSHRINK P205</p>	<p>FROM \$16.95 TH-1824</p> <p>WIRE STRIPPERS P52</p>	<p>FROM \$0.95 HM-3193</p> <p>TERMINAL BLOCKS P232</p>	<p>FROM \$7.95 PP-2052</p> <p>TRAILER PLUGS P500</p>
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HEATSHRINK

Heatshrink Tubing - 5m Roll - 2:1

Purchase as a 5m box that can be neatly stacked and organised in the workshop or tradesman's van. Shrink with a heatgun, hairdryer or gas burner.

- 2:1 ratio

Specifications	All
Material	Polyethylene
Shrink Ratio	2:1
Operating temperature	-55 to 125°C
Shrink temperature	Start at 70°C and full recovery at 110°C
Flammability	VW-1
Approvals	RoHS and UL224
Colour	Black & Red
Roll length	5m
Box dimensions	49(W) x 177(H) x 165(D)mm



Supplied in handy box



Supplied in handy box

↑ Dia (mm)	Shrinks to (mm)	Black	Red	Per 5m Roll
1.5	0.75	WH-5680	WH-5690	\$5.45
2.5	1.25	WH-5681	WH-5691	\$6.45
3.0	1.5	WH-5682	WH-5692	\$6.95
5.0	2.5	WH-5683	WH-5693	\$8.95
10.0	5	WH-5684	WH-5694	\$10.95
16.0	8	WH-5685	WH-5695	\$14.95
20.0	10	WH-5686	WH-5696	\$21.95

Sold by the 5m box

2:1 Shrink Ratio
Halogen Free

Heatshrink Tubing - 1.2m Lengths - 2:1

Our heatshrink is flexible and made from flame-resistant polyolefin.

- Made to UL224 E180908 125°C.
- Shrinks to 50% of its size.
- Shrink with a heatgun, hairdryer or a gas burner, match etc.
- Length is 1.2 metres.



* Clear heatshrink not halogen free.

↑ Dia (mm)	Shrinks to (mm)	Green	Black	Red	Clear	Blue	White	Yellow	Qty 1+	Qty 4+	Qty 10+
1.5	0.75	WH-5510	WH-5530	WH-5540	WH-5550*	WH-5560	WH-5570	WH-5590	\$1.45	\$1.30	\$1.15
2.5	1.25	WH-5511	WH-5531	WH-5541	WH-5551*	WH-5561	WH-5571	WH-5591	\$1.65	\$1.45	\$1.30
3.0	1.5	WH-5512	WH-5532	WH-5542	WH-5552*	WH-5562	WH-5572	WH-5592	\$1.85	\$1.65	\$1.45
5.0	2.5	WH-5513	WH-5533	WH-5543	WH-5553*	WH-5563	WH-5573	WH-5593	\$1.95	\$1.75	\$1.55
6.0	3	WH-5514	WH-5534	WH-5544	WH-5554*	WH-5564	WH-5574	WH-5594	\$2.25	\$1.95	\$1.80
10	5	WH-5515	WH-5535	WH-5545	WH-5555*	WH-5565	WH-5575	WH-5595	\$2.95	\$2.60	\$2.30
16	8	WH-5516	WH-5536	WH-5546	WH-5556*	WH-5566	WH-5576	WH-5596	\$3.95	\$3.45	\$3.15
20	10	WH-5517	WH-5537	WH-5547	WH-5557*	WH-5567	WH-5577	WH-5597	\$5.75	\$4.95	\$4.60

2:1 Shrink Ratio
Halogen Free

All Sizes
1.2 metre lengths

Heatshrink Tubing with Glue Lining 4:1

The heat sensitive glue on the internal wall of the tube melts when heat is applied, allowing for a professional water and dust resistant seal.

- Black in colour and sold in 1.2m lengths
- 4:1 shrink ratio.

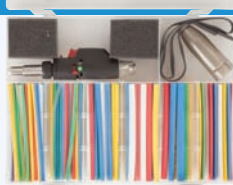
4:1 Shrink Ratio
Halogen Free



↑ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
4	1	WH-5640	\$4.95	\$4.45	\$3.90
6	1.5	WH-5641	\$5.65	\$4.95	\$4.45
8	2	WH-5642	\$6.45	\$5.75	\$4.95
12	3	WH-5643	\$7.45	\$6.50	\$5.75
16	4	WH-5644	\$7.95	\$6.95	\$6.25
19	4.75	WH-5645	\$11.95	\$10.70	\$9.50
24	6	WH-5646	\$12.95	\$11.35	\$10.35

161 Piece Heatshrink Pack with Gas Powered Heat Blower

A great addition to your workshop or toolbox. The handy box includes an assortment of 160 heatshrink tubes in 7 different colours and diameters, plus 1 gas powered heat gun with Piezo ignition and flame or flameless output. All supplied in a transparent lightweight box that measures 242(L) x 175(W) x 30(H)mm. Use NA-1020 Butane Gas.



BEST SELLER

Size	Colour
15mm x 500mm	Black
1.5mm x 100mm	Green 10pcs, red 10pcs, yellow 10pcs, blue 10pcs, white 10pcs, transparent 10pcs
2.5mm x 100mm	Green 6pcs, red 6pcs, yellow 6pcs, blue 6pcs, white 5pcs, transparent 6pcs
3.5mm x 100mm	Green 4pcs, red 4pcs, yellow 4pcs, blue 4pcs, white 4pcs, transparent 5pcs
5.0mm x 100mm	Green 3pcs, red 4pcs, yellow 3pcs, blue 3pcs, white 3pcs, transparent 4pcs
6.0mm x 100mm	Green 1pcs, red 2pcs, yellow 2pcs, blue 2pcs, white 1pcs, transparent 2pcs
10mm x 100mm	Green 1pcs, red 2pcs, yellow 2pcs, blue 2pcs, white 1pcs, transparent 2pcs

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Heatshrink Pack	TH-1620	\$39.95	\$35.90	\$31.90

Heat Shrinkable Braided Sleeving

Used to provide added protection to cables against flames and abrasion. Consists of polyester multifilament and special modified polyolefin filament, which will shrink when expose to a heat source (Heat gun recommended). The unique woven construction makes it extremely flexible and easy to install on the hoses with irregular shapes.

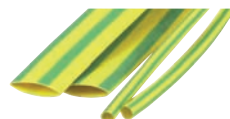


Specifications	All
Operating range	-40°C to 125°C
Minimum shrink temperature	80°C
Minimum fully recovery temperature	120°C
Flammability	self-extinguishing
Shrinking ratio	2:1
Approved	RoHS, Halogen Free
Shrink ratio	2:1
Length	1.2m

↑ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
10	5	WH-5620	\$3.95	\$3.45	\$3.15
20	10	WH-5622	\$4.95	\$4.45	\$3.90
25	12.5	WH-5624	\$6.95	\$6.25	\$5.55
30	15	WH-5626	\$8.95	\$7.95	\$6.95

Yellow & Green Heatshrink Tubing

- 1.2m lengths
- Ideal for indicating earth connections.



Abrasion Resistant & Flame Retardant - 2:1 Shrink Ratio

↑ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1.5	WH-5610	\$2.95	\$2.60	\$2.30
10	5	WH-5612	\$3.95	\$3.45	\$3.15

Heatshrink Tube 50mm Black

Ideal for bundling battery packs, but also used for grips on kayak paddles etc. 2:1 shrink rate. Supplied in 300mm lengths.



2:1 Shrink Ratio
Halogen Free

↑ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
50	25	WH-5582	\$3.95	\$3.45	\$3.15

HEATSHRINK PACKS

Comprehensive Heatshrink Pack

- 1 length each of 7 different colours in 7 different sizes ranging from 1.5mm diameter to 20mm
- Sizes: 1.5, 3, 5, 6, 10, 16 & 20mm

Note: Clear is NOT Halogen Free

2:1 Shrink Ratio
Halogen Free

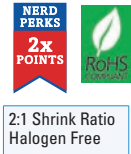


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WH-5520	\$14.50	\$12.95	\$11.35

Handy Heatshrink Pack

Handy assortment of our high quality heatshrink tubing. Sizes from 1.5mm to 10mm.

- 10 pieces in all of 300 & 150mm length
- Colour Red & Black



2:1 Shrink Ratio
Halogen Free

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WH-5525	\$7.95	\$6.95	\$6.25

Glue Lined Pre-cut Heatshrink Tubing - Trade Pack

A box of six common sizes of 95mm long glue lined heatshrink. Includes 20 pcs 4.0mm, 15pcs 6.0mm, 10pcs 8.0mm, 5pcs 12mm, 5pcs 16mm, & 5pcs 19mm - 60pcs total.

This is an economical way to get this product.

- Supplied in a see-thru nylon snap shut case
- Box measures: 205(W) x 108(D) x 35(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WH-5521	\$29.95	\$26.90	\$23.70

Heatshrink Assortment Trade Pack

All the heatshrink the technician, tradesman or serious hobby user will ever need. The pack contains 160 lengths of different sizes in a handy storage case.

- 1.5mm: 40 x black, 10 x red, 10 x clear
- 2.5mm: 25 x black, 5 x red, 5 x clear
- 3mm: 17 x black, 4 x red, 4 x clear
- 5mm: 14 x black, 3 x red, 3 x clear
- 6mm: 6 x black, 2 x red, 2 x clear
- 10mm: 6 x black, 2 x red, 2 x clear
- Case size: 205(L) x 110(W) x 35(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WH-5524	\$19.95	\$17.95	\$15.95

CABLE SLEEVING & WRAP

PVC Spaghetti Tubing Pack - 12 Piece

This sleeving is made from soft PVC. It does not shrink with heat. It is ideal for high-voltage protection of smaller wires, has abrasion resistance or you can bundle several smaller wires inside a length.

- 4 sizes - 1.5, 3.0, 5.0 & 10mm.
- Colours - black, red, yellow, white, clear & blue.
- All 300mm long.
- 85°C rated
- Note: colour quantities vary from pack to pack

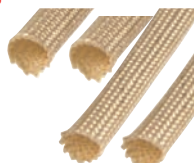


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WS-5502	\$9.95	\$8.75	\$7.75

Vidaflex Fibreglass Heat Resistant Sleeving

A woven fibreglass product used where heat or abrasive resistance is needed for a "spaghetti" type insulation application. Supplied in most commonly used sizes.

- Also sometimes called Cambric insulation
- Thermal resistance to 450°C
- 1 metre per pack



↑	Size (mm)	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	3	1m	WS-5504	\$6.50	\$5.75	\$4.95
	4	1m	WS-5506	\$8.50	\$7.50	\$6.75

Expandable PPS Sleeving

This PPS (Polyphenylene Sulphide) monofilament sleeving is ideal in high temperature environments and offers a lightweight mechanical protection to your cabling. The construction expands up to 3 times to allow easy insertions of cables and reverts back to original diameter for a snug fitment. The open weave design also dissipates heat and doesn't trap moisture.

Specifications	All
Material	Polyphenylene Sulphide (PPS) monofilament UL94 V-0
Colour	Black
Length	2m



↑	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
3mm x 2m	WH-5584	\$2.50	\$2.21	\$1.95
6mm x 2m	WH-5585	\$3.25	\$2.90	\$2.60
10mm x 2m	WH-5587	\$5.95	\$5.35	\$4.75
15mm x 2m	WH-5588	\$9.95	\$8.75	\$7.95

Self-Closing Braided Wrap

Protect cabling neat and tidy, and protected from abrasion, wear and tear using this flame resistant self closing wrap. Each 2m length is flexible and lightweight, and the open structure allows it to be easily installed without having to remove connectors or terminals.

Specifications	All
Material	PET Polyethylene Terephthalate
Operating range	-50°C to +150°C
Melt point	250°C @ 5°C
Flammability	VW-1
Certificate	RoHS, Halogen Free
Cutting tool	Hot knife
Colour	Black
Length	2m



↑	Cat.	Qty 1 +	Qty 4 +	Qty 10 +	
	6mm x 2m	WH-5630	\$6.95	\$6.25	\$5.50
	9mm x 2m	WH-5632	\$7.95	\$6.95	\$6.25
	13mm x 2m	WH-5634	\$10.95	\$9.85	\$8.75
	19mm x 2m	WH-5636	\$12.95	\$11.35	\$10.35

Braided Hook & Loop Loom Wrap - 1.5m

A fantastic solution for keeping cables wrapped up and neatly arranged. Wraps around your cables and secures them with hook and loop. When you need to add or remove cables, just undo the hook and loop. Couldn't be easier!

- Hook and loop width: 20mm
- Material: Polyester
- Working temperature: -50° to 150°C
- Melting point: 230°C +/- 5°C



32MM - 1.5M
WH-5654

51MM - 1.5M
WH-5656

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
32mm x 1.5m	WH-5654	\$14.95	\$13.35	\$11.70
51mm x 1.5m	WH-5656	\$17.95	\$15.95	\$14.35

Multi-Filament Zipper Wrap - 1.5m

No more messy cables! Simply insert the cable and do up the zip. Will keep messy computer cabling, tangled home theatre AV cabling, or general power cabling neat and tidy but still easily accessible when you need to change a connection. Double filament for extra strength and durability

- Material: Polyester Multi-Filament
- Working temperature: -50° to 150°C
- Flammability: VW-1
- Melting point: 240°C +/- 1°C
- Colour: Black

Two versions available
30MM - 1.5M
WH-5661

50MM - 1.5M
WH-5663



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
30mm x 1.5m	WH-5661	\$21.95	\$19.70	\$17.35
50mm x 1.5m	WH-5663	\$34.95	\$31.45	\$27.90

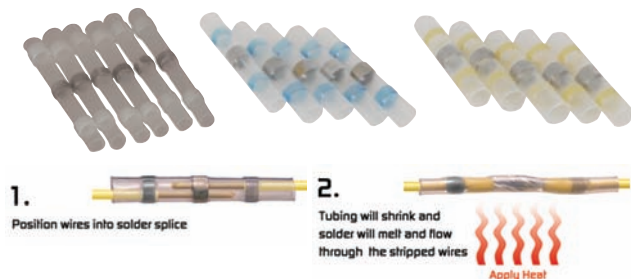
CABLE & CONNECTORS

CABLE ACCESSORIES

HEATSHRINK ACCESSORIES

Solder Splice Heat Shrink Tube - Pack of 5

Solder splice heat shrink tubes allow you to quickly join two cables thanks to the small section of solder in the middle of the tube. Simply slide a tube over the join in two cables and heat as you would any other shrink tube. As the tube shrinks the solder melts to electrically connect the wires resulting in a join which is reliable and well insulated. Available in four sizes approximately 26-40mm in length with 5 pieces per pack. Shrink ratio 2:1.



↑	Dia. x Length (mm)	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.7 x 26	6	WH-5669	\$4.95	\$4.45	\$4.00
	2.7 x 40	5	WH-5670	\$4.95	\$4.45	\$3.90
	4.5 x 40	5	WH-5671	\$4.95	\$4.45	\$3.90
	6.0 x 40	5	WH-5672	\$4.95	\$4.45	\$3.90

Assorted Solder Splice Heatshrink Pack - 42 Pieces

A handy assorted pack of solder splice heatshrink tubes to join electrical wires quickly and easily and make a good quality join. Each splice has just the right amount of solder to create a secure connection.

Kit includes:
 12 x White 1.7 x 26mm
 12 x Red 2.7 x 40mm
 12 x Blue 4.5 x 40mm
 6 x Yellow 6.0 x 40mm



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	42	WH-5668	\$34.95	\$31.45	\$27.90

TAPE

Heatshrink Tape - Black

Ideal for emergency repairs or when you aren't able to use a piece of tubing. It conforms to odd shapes that heatshrink tubing is unable to, and has a low melting point adhesive for easy installation. It also remains flexible at extremely low temperatures. Keep a roll in the toolie.

- Operating temperature: -40 - 105°C
- Shrink temperature: 125°C
- 25mm wide x 5m roll



↑		Cat.	Qty 1+	Qty 4+	Qty 10+
	25mm wide 5m roll	WH-5659	\$12.95	\$11.35	\$10.35

Silicone Rescue Tape

Rescue tape is a self-fusing tape made of the highest quality materials for a permanent air-tight and water-tight seal in emergency situations. Just wrap it around a troublesome leak and it will bond in seconds. The tighter you stretch the tape, the quicker it will bond. Brilliant!

- Resists fuels, oils, acids, solvents, salt water, road salt, UV rays
- Remains flexible to -60°C (-85°F)
- Operating temperature range: -65°C to 260°C / -85°F to 500°F
- Continuous temperature range: -60°C to 200°C / -76°F to 392°F
- Cold brittle point: -85°F / -65°C
- Tensile strength (Min.): 700 psi
- Elongation (Min.): 300%
- Tear strength (Min.): 85 ppi
- Bond strength (Min.): 2 Lbs
- Water absorption (Max.): 3% By Weight
- Dielectric strength (Min): 400 volts/mil (8,000 V/20 Mil)
- Measures 1" x 12 FT (Approx: 25.4mm x 3.6mm)



DID YOU KNOW?

You can repair a burst radiator hose with this!

RESCUE TAPE

↑		Cat.	Qty 1+
	1" wide 12 foot roll	NA-2829	\$29.95

WIRE GLUE

Wire Glue

A soldering iron in a jar. Wire Glue is a electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or aren't able to apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.

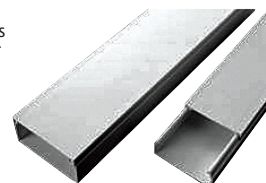


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM-2831	\$9.95	\$8.75	\$7.75

CABLE MANAGEMENT

Rectangular Cable Duct - 1m

Keep your home theatre cables under control and neatly out of the way. Available in two sizes and in convenient 1m lengths, the leads to your wall-mounted plasma or LCD TV will be kept bundled up but easily accessible. The cover can be quickly removed and replaced for maintenance and can be painted to match the colour of your wall.



- 25 x 16mm x 1m Cat HP-1330
- 50 x 25mm x 1m Cat HP-1332

↑	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
	25 x 16mm	HP-1330	\$6.95	\$6.25	\$5.50
	50 x 25mm	HP-1332	\$9.95	\$8.75	\$7.75

Floor or Wall Cable Ducting

This extruded ducting helps conceal messy cables across doorways, along skirting boards or walls. Great for offices or home. The ducting is 50.8mm wide and is sold in convenient 1.83m lengths.



↑	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.83m	HP-1226	\$15.95	\$14.35	\$12.70

Round Desk Grommet

No more tangled wires and cables! The desk grommet is the perfect way to easily and neatly store your power, communication, audio/video, computer and data cables. It is ideal for installation in desks, workstation, telephones cabinets or entertainment unit. Simply drill or cut a 60mm hole through the surface and insert the grommet into the hole.

- Dimensions: 60mm (diameter)
- Black in colour



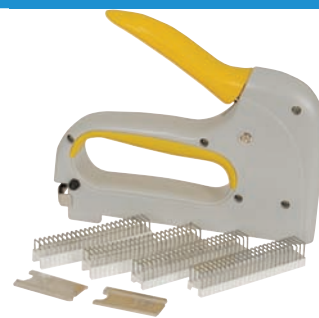
↑		Cat.	Qty 1+	Qty 4+	Qty 10+
	60mm (diameter)	HP-1228	\$9.95	\$8.75	\$7.75

CABLE STAPLE GUN

Cable Staple Gun

Take the pain out of cable installation. Instead of trying to pound away with a hammer, simply staple the cable to eaves, rafters or joists. The staples have an integral plastic cable clamp that holds the cable firmly in place. The gun takes a variety of staples sizes to accommodate cables up to 8.0mm diameter.

- Includes gun, 2 interchangeable blades and 200 staples
- Refill staples available



↑	Pkt	Cat.	Qty 1+	Qty 3+	Qty 6+
	Cable Gun	TH-2610	\$29.95	\$26.95	\$23.95
	Refill Staples 4-6mm	TH-2611	\$10.95	\$9.85	\$8.75
	Refill Staples 6-8mm	TH-2612	\$10.95	\$9.85	\$8.75

CABLE TIE MOUNTS

Adhesive Cable Tie Mounts

These are used in conjunction with our cable ties. They simply stick to the surface, then the cable tie is looped through and around the cables.

- 21mm square.



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP-1195	\$4.50	\$3.95	\$3.60	

RUBBER FEET

Small Stick On

Dimensions: 12 x 12mm

- Height 6mm
- Moulded in oil resistant synthetic rubber



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0815	\$2.50	\$2.20	\$1.95	
20	HP-0816	\$7.95	\$6.95	\$6.25	

Large Stick On

- Dimensions: 20 x 20mm
- Height 8mm
- Moulded in oil resistant synthetic rubber



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0825	\$3.95	\$3.45	\$3.15	
20	HP-0822	\$9.95	\$8.75	\$7.75	

Screw On Equipment Feet

- Silver in colour
- Screw on
- Pack of 4

HP-0830 - 30mm
HP-0832 - 50mm



↑	Size mm	Cat.	Qty 1+	Qty 4+	Qty 10+
	30	HP-0830	\$6.95	\$6.25	\$5.50
	50	HP-0832	\$8.95	\$7.95	\$6.95

Screw Fixing Rubber Feet

Requires 3mm screw and nut.

- 11mm dia. x 7.5mm high
- Moulded in oil resistant synthetic rubber



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0800	\$4.50	\$3.95	\$3.60	

NERD PERKS REWARDS CARD



Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details

RUBBER GROMMETS

Rubber Grommets

Suitable for use with chassis up to 16 gauge/1.5mm.

- Moulded in oil resistant synthetic rubber
- Black



CHASSIS HOLE 9.5MM. CABLE DIA 6MM.

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0702	\$3.95	\$3.45	\$3.15	

CHASSIS HOLE 12.7MM. CABLE DIA 9.5MM

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0704	\$4.65	\$4.15	\$3.60	

IP68 Nickel Plated Brass Cable Glands



These nickel-plated brass cable glands are certified to IP68 and provide superior grip and sealing. They are totally protected and O-ring sealed against the ingress of dust, moisture and water to a depth of one metre. The unique design speeds installation and eliminates the need to disassemble the gland before fitting. A self-adjusting cable seal allows the glands to be used on a wide range of cable sizes and minimises inventory holdings. These glands are supplied complete with seals and locknuts.

5 sizes are available.

Cat.	Cable Size
HP-0744	3 to 6.5mm
HP-0745	4 to 8mm
HP-0746	5 to 10mm
HP-0747	6 to 12mm
HP-0748	10 to 14mm

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0744	\$7.45	\$6.50	\$5.75	
2	HP-0745	\$7.95	\$6.95	\$6.25	
2	HP-0746	\$8.95	\$7.95	\$6.95	
2	HP-0747	\$9.95	\$8.75	\$7.75	
2	HP-0748	\$9.95	\$8.75	\$7.75	

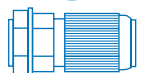
CABLE GLANDS

IP68 Waterproof Cable Glands

These unique cable clamps incorporate a unique sealing mechanism which works on the camera shutter principle. Simply mount the clamp, insert the cable through and tighten up. There is no need to disassemble the clamp prior to installation. These clamps are rated to IP68. This is the highest rating possible. They are totally dust tight and protected against submersion in water.



- Trapezoidal thread for quick high torque tightening
- No throwaway "O" rings
- Long metric thread
- Superior strain relief
- UL Approved NYLON 94V-2



3 - 6.5MM DIA CABLE Thread EP-7

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0720	\$4.95	\$4.45	\$3.90	

4 - 8MM DIA CABLE Thread EP-9

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0724	\$5.45	\$4.90	\$4.30	

5 - 10MM DIA CABLE Thread EP-11

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0727	\$5.95	\$5.25	\$4.75	

6 - 12MM DIA CABLE Thread EP-13.5

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0732	\$6.45	\$5.75	\$4.95	

10 - 14MM DIA CABLE Thread EP-16

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0736	\$6.95	\$6.25	\$5.50	

13 - 18MM DIA CABLE Thread EP-21

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0740	\$7.95	\$6.95	\$6.25	

Cordgrip Clamps

For cables 7.4mm - 8.2mm diameter, (3 wire mains).

- Panel cutout 14mm.
- Black nylon



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0716	\$1.95	\$1.75	\$1.55	

For cables 6.2mm - 7.4mm diameter.

- Panel cutout 11.5mm

↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0718	\$1.95	\$1.75	\$1.55	

MILESTONES

THE DEMISE OF DICK SMITH ELECTRONICS

It is with sincere sadness that I note the passing of Dick Smith Electronics as of February 2016.

I worked for this company from the mid '70's until February 1981. I had a wonderful time there and learnt an awful lot. I was very happy there and had the privilege of working one on one with Dick for many years.

I watched in awe the homespun intelligence and everyday common sense that was integral to the Dick Smith business plan that made Dick a household name - even then. We did things that just made so much sense - from direct importing goods and cutting out the local (generally lazy) middle man to working on advertising deals that were irresistible to the customer - to understanding the customer because we were enthusiasts ourselves.

I was peripherally part of the negotiating process of the sale of Dick Smith Electronics to Woolworths. Indeed, I met the Woolworths board at the time (I was 30) and they were lovely people.

I decided to go out on my own and create Jaycar. At the time I was convinced I knew the marketing and importing nous about as well as Dick did. Subsequent events indicated this to be reasonably correct.

Despite my abandoning ship and going into competition with DSE, Dick and I remained close friends. Not long after Dick became immersed in building "Australian Geographic" we routinely called each other. During a typical conversation he repeated something that he had told me previously. It was this.

He said that even though he was leaving DSE for Australian Geographic, he welcomed any call from Woolworths or DSE management seeking clarification of some management issue at DSE. He added that, if necessary, he was happy to field "20 calls a day" if it helped Woolworths/DSE make a successful changeover.

He never got one call.

Woolworths will tell you over the years "they made a lot of money from DSE". And this is probably true.

They could still be making a lot of money out of DSE. Maybe they should have made a few calls.

The demise of DSE certainly was no fault of Dick's. He tried to help - long ago.

Gary Johnston

CABLE & CONNECTORS

CABLE ACCESSORIES

CABLE ACCESSORIES

Dune Tube with Applicator - Black

Keep your cables neat and tidy. They are easily bent for corners and are slit so cables can enter or leave at any point. Simply slip in the cable, insert the applicator and slide away. Easier to use than Spiral Binding; more secure than Loom Tube!

- Made from black flexible plastic
- INCLUDES SPECIAL WIRE SHUTTLE.



↑ Dia.	Length	Cat	Qty 1+	Qty 4+	Qty 10+
15mm	2.5m	HP-1235	\$9.95	\$8.75	\$7.75
20mm	2.5m	HP-1237	\$11.95	\$10.70	\$9.50
20mm	10m	HP-1239	\$39.95	\$35.90	\$31.90

Spiral Binding

Keep wiring tidy! Available in 2 sizes and colours and is easily wrapped around bunches of cables to keep them tidy.



↑ Dia.	Length	Cat	Qty 1+	Qty 4+	Qty 10+
6mm	2.5m	HP-1218	\$6.15	\$5.50	\$4.90
12mm	1.5m	HP-1219	\$6.15	\$5.50	\$4.90
6mm	2.5m	HP-1220	\$6.15	\$5.50	\$4.90
12mm	1.5m	HP-1222	\$6.15	\$5.50	\$4.90

Loom Tubes



Tidy up the cables behind your PC or audio equipment, secure cabling in your car. The Loom Tube will keep wiring in place and suits many types of applications. The tube has a slit so that cables can enter/leave at any point along its length.

- Made from black flexible PVC.
- Three diameters available: 7, 10 or 19mm
- Available in either 2m or 10m lengths - just cut to suit.
- Good abrasion resistance.

↑ Dia.	Length	Cat	Qty 1+	Qty 4+	Qty 10+
7mm	2m	HP-1221	\$3.20	\$2.83	\$2.45
10mm	2m	HP-1224	\$3.80	\$3.30	\$2.95
19mm	2m	HP-1227	\$4.95	\$4.45	\$3.90
7mm	10m	HP-1223	\$14.95	\$13.35	\$11.70
10mm	10m	HP-1225	\$15.95	\$14.35	\$12.70
19mm	10m	HP-1229	\$19.95	\$17.95	\$15.95

Concrete Cable Tie Mounts

Use these cable tie mounts in runs along walls and ceilings made of brick or concrete.

- UL 94V-2 approved Nylon
- Hole required:
- Approx. 7mm dia x 37mm deep



↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP-0795	\$5.50	\$4.90	\$4.30
100	HP-0796	\$23.50	\$20.95	\$18.70

Can anyone remember what we did before nylon cable ties were invented? It must have been back in the Stone Age!

CABLE TIES

Plastic Cable Ties



- UV Resistant
- Black Nylon
- Safe edges

Length	Pack	Cat	Qty 1+	Qty 4+	Qty 10+
100mm	20	HP-1200	\$1.85	\$1.65	\$1.45
150mm	15	HP-1201	\$2.25	\$1.95	\$1.80
200mm	15	HP-1202	\$2.50	\$2.20	\$1.95
300mm	15	HP-1245	\$2.95	\$2.60	\$2.30
500mm	15	HP-1248	\$5.95	\$5.25	\$4.75
605mm	15	HP-1249	\$6.95	\$6.25	\$5.50
100mm	100	HP-1203	\$4.95	\$4.45	\$3.90
150mm	100	HP-1204	\$7.95	\$6.95	\$6.25
200mm	100	HP-1205	\$10.95	\$9.75	\$8.75
300mm	100	HP-1246	\$12.95	\$11.35	\$10.35
100mm	500	HP-1211	\$17.95	\$15.95	\$14.35
150mm	500	HP-1212	\$29.95	\$26.95	\$23.95
200mm	500	HP-1213	\$39.95	\$35.90	\$31.90
300mm	500	HP-1247	\$45.00	\$40.45	\$35.95

Extra Long Mixed Cable Tie Set

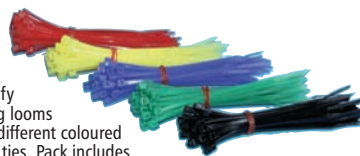


This handy cable tie set contains 70 black cable ties of various lengths up to 500mm.

- 10 pcs 500(L) x 10(W)mm
- 10 pcs 510(L) x 8(W)mm
- 20 pcs 400(L) x 5(W)mm
- 30 pcs 300(L) x 4(W)mm

↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
70	HP-1209	\$18.95	\$16.95	\$14.95

Coloured Cable Ties



Identify wiring looms with different coloured cable ties. Pack includes 25pcs each of red, yellow, green, blue and black. Total 125 cable ties. Length 100mm.

↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-1196	\$9.95	\$8.75	\$7.75

100mm Label Cable Ties

PACK OF 20
Ideal for large or complex wiring looms, these allow you to label cable bundles for identification later to make tracing or fault-finding easy. Easily marked with permanent marker or self-adhesive labels.

↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP-1244	\$3.50	\$3.15	\$2.75

Releasable Cable Tie Pack

Releasable cable ties are perfect for temporarily securing cables or for jobs where you need to periodically change cables. This handy pack contains 10 pieces at lengths of 125, 200, and 300mm. The release lever is located below the head of the cable tie making it easy to access but unlikely to be released accidentally. The ties are made from UV resistant black nylon and have safe edges to prevent cuts.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1217	\$6.95	\$6.25	\$5.50

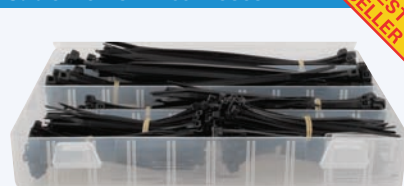
Cable Tie Tidy Kit



Consists of:
30 x 120mm cable ties,
20 x 120mm reusable cable ties,
10 x self adhesive cable tie mounts,
20 x saddle type cable tie mounts.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1198	\$9.95	\$8.75	\$7.75

Cable Tie Box - 400 Pieces



Let's face it, the mixed box of cable ties in all the colours of the rainbow is fine, however most of the time you only use about 2-3 different sizes and blacks the colour because of its UV stability. This is your box. This kit consists of: 100 pcs x 200mm, 100 pcs x 150mm, 200 pcs x 100mm.

All in a see through flat storage case that makes access to the ties easy. The box even has some compartment dividers included so that it becomes a parts storage box when all of the ties have been used up.

- Box measures: 250(W) x 180(D) x 40(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1216	\$19.95	\$17.70	\$15.70

Cable Tie Gun



Once you have wrapped the tie around the cable you simply slide the tail into the gun and pull the trigger. This will tighten the tie and cut off the excess to produce a neat and professional finish.

- Tension adjustment for different ties.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH-2600	\$23.95	\$21.35	\$18.95

HOOK & LOOP CABLE TIES

Mixed Hook & Loop Cable Ties

Keep your cables neat and tidy. Packet of 16 hook & loop cable ties in assorted sizes from 125 to 180mm.



↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
16	HP-1232	\$9.95	\$8.75	\$7.75

Hook & Loop Cable Ties

Tidy up behind the TV or audio equipment with these re-usable hook & loop cable ties. Each tie is 140mm in length.



- Note: Lead not supplied.

↑ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
5	HP-1210	\$4.95	\$4.45	\$3.90

FASTENERS & SCREWS

Metric Nylon Fasteners

- Precision moulded from white nylon.
- Fully insulated
- Suitable for high temperature work
- Corrosion free and won't shake loose.
- Ideal for transistor and heatsink use
- Supplied in polybag
- Round heads



M3 NYLON SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 12mm	Screws, Phillips Drive Head	10	HP-0140	\$2.95	\$2.60	\$2.30
M3 x 25mm	Screws, Phillips Drive Head	10	HP-0142	\$3.50	\$3.15	\$2.75
M3 Nuts	Hex	10	HP-0146	\$3.00	\$2.60	\$2.30
M3 Nuts	Hex with Washer	25	HP-0150	\$6.50	\$5.75	\$4.95
M3 Washer	Flat	10	HP-0148	\$2.50	\$2.20	\$1.95

M4 NYLON SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips Drive Head	25	HP-0160	\$7.50	\$6.75	\$5.95
M4 x 16mm	Screw, Phillips Drive Head	25	HP-0162	\$8.50	\$7.50	\$6.75
M4 Nuts	Hex	25	HP-0168	\$7.00	\$6.25	\$5.50
M4 Washers	Flat 10mmOD, 4.2mmID	25	HP-0166	\$5.00	\$4.45	\$3.95

Woodscrews - Phillips Head

- Ideal for mounting speakers
- Black finish
- No.6 size suitable for tweeters, midrange and crossovers.
- No.10 size suitable for Woofers



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
No.6 x 15mm	Round Head (Tweeters)	20	HP-0620	\$4.95	\$4.45	\$3.90
No.6 x 15mm	Countersunk	20	HP-0626	\$4.95	\$4.45	\$3.90
No.8 x 25mm	Countersunk	20	HP-0625	\$5.95	\$5.25	\$4.75
No.10 x 30mm	Round Head (Woofers)	20	HP-0624	\$5.95	\$5.25	\$4.75
No.10 x 30mm	Countersunk	20	HP-0628	\$5.95	\$5.25	\$4.75

Self-Tapping Screws

- Nickel plated Steel



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
No.4 x 6mm	Phillips Head	25	HP-0550	\$3.00	\$2.60	\$2.30
No.4 x 9mm	Phillips Head	25	HP-0565	\$3.00	\$2.60	\$2.30
No.4 x 12mm	Phillips Head	25	HP-0554	\$3.50	\$3.15	\$2.75
No.8 x 12mm	Phillips Head	25	HP-0558	\$4.00	\$3.60	\$3.15

Metric Metal Thread Fasteners

- Nickel or Cadmium Plated and passivated screws
- Supplied in polybag



M2 SCREWS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M2 x 8mm	Screw, Pozi Drive	4	HP-0390	\$1.50	\$1.35	\$1.20

M3 EQUIPMENT SCREWS

*Black japanned screws used holding top/side panels on VCR, DVD, Amplifiers, etc.

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 5mm	Screw, Phillips, Black	25	HP-0440	\$2.30	\$2.03	\$1.80
M3 x 5mm	Screw, Phillips, Black	200	HP-0441	\$6.00	\$5.25	\$4.75

M3 SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 6mm	Screw, Phillips	25	HP-0400	\$2.50	\$2.20	\$1.95
M3 x 6mm	Screw, Phillips	200	HP-0401	\$6.50	\$5.75	\$4.95
M3 x 10mm	Screw, Phillips	25	HP-0403	\$3.00	\$2.60	\$2.30
M3 x 10mm	Screw, Phillips	200	HP-0404	\$7.50	\$6.75	\$5.95
M3 x 15mm	Screw, Phillips	25	HP-0406	\$3.50	\$3.15	\$2.75
M3 x 15mm	Screw, Phillips	200	HP-0407	\$8.50	\$7.50	\$6.75
M3 x 20mm	Screw, Phillips	25	HP-0410	\$3.50	\$3.15	\$2.75
M3 x 25mm	Screw, Phillips	25	HP-0414	\$3.50	\$3.15	\$2.75
M3 x 32mm	Screw, Phillips	25	HP-0418	\$4.00	\$3.60	\$3.15
M3 Nuts	Hex	25	HP-0425	\$2.95	\$2.60	\$2.30
M3 Nuts	Hex	200	HP-0426	\$9.95	\$8.75	\$7.75
M3 Washers	Flat	25	HP-0430	\$3.00	\$2.60	\$2.30
M3 Washers	Flat	200	HP-0431	\$7.95	\$6.95	\$6.25
M3 Washers	Shakeproof	25	HP-0433	\$3.50	\$3.15	\$2.75
M3 Washers	Spring	25	HP-0436	\$3.00	\$2.60	\$2.30

M4 SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips	25	HP-0450	\$3.50	\$3.15	\$2.75
M4 x 10mm	Screw, Phillips	200	HP-0451	\$9.95	\$8.95	\$7.95
M4 x 15mm	Screw, Phillips	25	HP-0453	\$4.50	\$3.95	\$3.60
M4 Nuts	Hex	25	HP-0462	\$3.50	\$3.15	\$2.75
M4 Washers	Flat	25	HP-0465	\$3.50	\$3.15	\$2.75
M4 Washers	Shakeproof	25	HP-0468	\$4.00	\$3.60	\$3.15

M6 Rack Screws, Nuts & Washers

Suitable for mounting rack style enclosures into rack units



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M6 x 16mm	Screw, Pozi Drive, Black	12	HP-0300	\$4.95	\$4.45	\$3.90
M6 Nuts	Captive Nuts	12	HP-0310	\$7.95	\$6.95	\$6.25
M6 Washer	Flat Washer	12	HP-0322	\$3.50	\$3.15	\$2.75

NUTS & SPRINGS

Potentiometer Nuts

Packet of 12 potentiometer nuts and washers.



Size	Thread	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	12	RP-3500	\$3.50	\$2.75	\$2.45
16mm	Metric	12	RP-7500	\$3.50	\$2.75	\$2.45

200 Piece Spring Assortment

This set contains approximately 200 springs, with 20 different types, compression and tension. They range from 10mm long to 70mm long.



- Sizes for all are given on the lid
- Supplied in a plastic storage case

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
200 Pieces	HP-0638	\$19.95	\$17.95	\$15.95

Thread Repair Kits (Small Metric) M3, M4, M5 & M6

These products enable you to drill out a stripped or otherwise damaged thread in a blind hole. You can then insert a replacement thread with the coiled thread inserts and regain full function of the threaded hole, often giving a much stronger thread than the original one. This also works when a damaged stud or screw shaft has been removed.

The basic thread repair kit includes:
drill bit, thread tap, insertion tool, tag punch and 10 inserts of the nominated thread size.

Four versions available:
HP-1600 Thread repair kit for M3 threads
HP-1602 Thread repair kit for M4 threads
HP-1604 Thread repair kit for M5 threads
HP-1606 Thread repair kit for M6 threads



Type	Cat.	Qty 1+	Qty 3+	Qty 6+
M3	HP-1600	\$29.95	\$26.90	\$23.70
M4	HP-1602	\$29.95	\$26.90	\$23.70
M5	HP-1604	\$29.95	\$26.90	\$23.70
M6	HP-1606	\$29.95	\$26.90	\$23.70

SPACERS

Untapped Nylon PCB Spacers

Superb range of spacers. Fixing is by size 6 or 8 self tapping screws. The hex centre section can be gripped to prevent rotation while fixing.
• OD 8.2mm.



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	5	HP-0980	\$2.75	\$2.45	\$2.15
12mm	5	HP-0982	\$2.75	\$2.45	\$2.15
19mm	4	HP-0984	\$2.75	\$2.45	\$2.15
25mm	4	HP-0986	\$2.95	\$2.60	\$2.30
32mm	4	HP-0988	\$3.50	\$3.15	\$2.75
38mm	4	HP-0990	\$3.95	\$3.45	\$3.15

Untapped Nylon Spacers

- Untapped
- ID 4.1mm. OD 6.4mm.



Length	Diameter	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	6mm	25	HP-0930	\$6.95	\$6.25	\$5.50
10mm	6mm	25	HP-0934	\$7.95	\$6.95	\$6.25

CABLE & CONNECTORS MOUNTING ACCESSORIES

SPACERS (CONTINUED)

3mm Tapped Nylon Spacers

These spacers are tapped all the way through for a 3mm screw.
• OD 6mm.



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.3mm	25	HP-0920	\$8.95	\$7.95	\$6.95
9mm	25	HP-0922	\$9.95	\$8.95	\$7.95
12mm	25	HP-0924	\$9.95	\$8.75	\$7.75
15mm	25	HP-0926	\$11.95	\$10.70	\$9.50

Untapped Metal Spacers

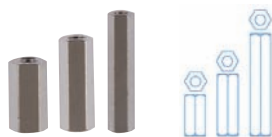
- Nickel plated steel
- Untapped.
- ID: 3.4mm OD 4.7mm.



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	8	HP-0860	\$3.65	\$3.15	\$2.90
9mm	8	HP-0862	\$3.95	\$3.45	\$3.15
12mm	6	HP-0864	\$4.65	\$4.15	\$3.60
25mm	4	HP-0866	\$4.95	\$4.45	\$3.90

3mm Tapped Metal Spacers

- Nickel plated
- 3mm standard metric thread



Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	8	HP-0900	\$3.95	\$3.45	\$3.15
10mm	200	HP-0901	\$29.50	\$26.55	\$23.60
15mm	8	HP-0904	\$4.95	\$4.45	\$3.90
25mm	8	HP-0907	\$5.95	\$5.25	\$4.75

PCB STANDOFFS

Adhesive PCB Standoffs

The self adhesive base sticks directly to the chassis.

- Requires 4mm PCB hole.
- Adhesive pads 18mm square.
- Two heights available.
- Nylon



Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP-0760	\$11.95	\$10.70	\$9.50
12.7mm	25	HP-0762	\$13.95	\$12.35	\$10.95

Screw Mount PCB Supports

These supports have a 2.5mm hole for securing to chassis with a screw, use 3 x 10mm or a self tapper.

- Two heights available.
- Requires 4mm PCB hole.
- Nylon



Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	25	HP-0764	\$7.95	\$6.95	\$6.25
20mm	25	HP-0766	\$9.95	\$8.75	\$7.75

Flush Mount PCB Supports

These are virtually flush mount on the underside of the chassis.

- PCB hole 4mm.
- Chassis hole 5.5mm
- Chassis thickness 0.8-1.2mm.
- Two heights available.
- Nylon

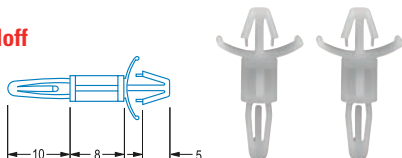


Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP-0774	\$6.95	\$6.25	\$5.50
10mm	25	HP-0776	\$7.50	\$6.75	\$5.95

Screwless PCB Standoff

- Nylon

Saves using nuts, bolts and spacers. Size 8mm. Requires 3mm hole each end.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0770	\$2.50	\$2.20	\$1.95

Metal Right Angle Standoffs

Threaded M3.5 standoffs, right angle.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0872	\$4.95	\$4.45	\$3.90

CABLE CLIPS / CLAMPS

Adhesive Cable / Bundle Mounts

These have an adhesive base 25 x 18mm and cable tie that clips into the base to retain individual cables, or bundles of wiring.

- The maximum cable bundle diameter accommodated is 17mm.
- The base also has a 3mm hole for a screw mount if required.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP-1190	\$6.95	\$6.25	\$5.50

Adhesive Cable Clips

The easy way to secure cables to walls, cabinets etc. Simply peel off adhesive cover and slip cable in.

- Please note all sizes are in mm.
- Nylon



Cat.	A	B	C	D	E
HP-0782	11.7	5.9	15.9	2.5	5.2
HP-0784	13.4	8.2	16.0	4.7	8.0
HP-0786	19.0	11.9	19.0	7.9	11.8

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0782	\$9.95	\$8.95	\$7.95
25	HP-0784	\$10.95	\$9.85	\$8.75
25	HP-0786	\$11.50	\$10.35	\$8.95

Cable Clips

These clips are made using a high-density polyethylene plastic material and galvanised high carbon steel nails. Available in packets of 25 and are priced up to 50% less than others.

- 4 sizes available



3 X 5MM

Accepts cables up to 3mm high by 5mm wide. Suits the following: WB-1706/WB-1708 speaker cable & 6 core flat telephone cable.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0680	\$2.45	\$2.15	\$1.95

5 X 8MM EXPANDABLE

Suits round cables with 5 x 8mm diameter - including 4 core alarm cable, 75Ω thin coax and 50Ω thin coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0682	\$2.75	\$2.45	\$2.15

5 X 7MM

Accepts cable up to 5mm high by 7mm wide. Suits the following: WB-1706/WB-1708 speaker cable & 6 core flat telephone cable

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0692	\$2.95	\$2.60	\$2.30

7 - 10MM EXPANDABLE

Suitable for round cable 7-10mm diameter - including 6 core alarm cable, air spaced coax and Belden coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0694	\$3.45	\$3.05	\$2.75

'P' Type Cable Clamps

- Nylon



Size	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
For 5mm cable	6	HP-0752	\$1.95	\$1.75	\$1.55
For 7mm cable	6	HP-0754	\$2.45	\$2.15	\$1.95
For 10mm cable	6	HP-0756	\$2.95	\$2.60	\$2.30

CONNECTORS

2.5, 3.5, 6.5mm - Audio	211	Disk Drive Connectors	235	RJ12, RJ45 Adaptors - Connectors	227
Adaptors - AV	215	EZ Hooks	23	SCART Connector	214
Adaptors - DC Power	225	FME Connectors	228	Self-Sealing QCs	238
Alligator Clips	476	F-Type	230	SMA	229
Amphenol Connectors	216	HDMI	353	Solder Tags, Lugs	235
Anderson Type Connectors	223	Header Terminals	233	Speaker Terminals	221
Automotive (250 series)	475	High Current Connectors	223	Speakon	218
Banana	220	IDC Headers	236	S-Video	222
Battery Clamps	476	Jumper Shunts	236	Tagboard, Tagstrip	235
Belling-Lee Connectors	229	Merit Plugs	477	Telephone	227
Binding Posts	220	Microphone	217	Terminal Blocks	232
BNC	231	Modular	227	TNC	228
Cannon - see Amphenol	216	Molex	475	TOSLINK Adaptors	365
Car Radio	502	Motorola Type	502	TV Antenna	229
Ceramic Terminal Blocks	232	N-Type Connectors	229	UHF	229
Cigarette Lighter Adaptors	477	Neutrik™ Plugs & Sockets	218	USB	228
Coaxial	229	PAL Connectors	229	Valve Sockets	142
Crimp Lugs	237	PCB Mount Terminals	233	VGA Wallplate	219
DC Power	225	Phono	213	Wallplates & Inserts	219
D Connectors & Backshells	234	Quick Connectors	232	XLR Connectors (mini)	218
DIL Jumpers	236	RCA	214	XLR	216
DIN Connectors	222	Ribbon Cable Connectors	234		

JACK PLUG

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters:

- 2.5mm - the smallest size used where space is a premium. Was once used as a mono earphone plug but now has multichannel functions.
- 3.5mm - the mini plug, which in the stereo version is widely found on headphones used with portable audio such as MP3 players etc. It is also a standard connector used on PC sound cards. The mono version is occasionally used as a DC power connector.
- 6.5mm - the largest size; the mono version is used on guitar & microphone leads, while the stereo version is often used on Hi-Fi headphones. The 6.5mm (or 1/4" phone plug) was originally used for manual telephone switchboards particularly the 'Sylvester' type

2.5MM

2.5mm Subminiature Plugs



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0100	\$0.75	\$0.65	\$0.60
Stereo	PP-0103	\$1.25	\$1.10	\$0.97
Stereo Right Angled	PP-0104	\$3.95	\$3.45	\$3.15
4 Contact	PP-0101	\$2.95	\$2.60	\$2.30

2.5mm Surface Mount Sockets

- Packet of 10



	Cat.	Qty 1+	Qty 10+	Qty 25+
SMD Stereo Switched	PS-0110	\$19.95	\$17.55	\$11.95

2.5mm Adaptors

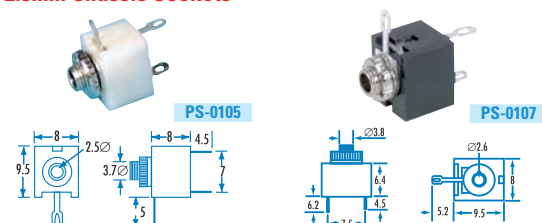


Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm Stereo Plug to 3.5mm Stereo Right Angle Socket	PA-3502	\$3.95	\$3.45	\$3.15
2.5mm Mono Plug to 6.5mm Mono Socket	PA-3504	\$1.95	\$1.75	\$1.55
2.5mm Stereo Plug to 3.5mm Stereo Socket	PA-3532	\$3.95	\$3.45	\$3.15

2.5mm Line Socket

	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PS-0109	\$1.95	\$1.75	\$1.55

2.5mm Chassis Sockets



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0105	\$0.95	\$0.85	\$0.75
Stereo	PS-0107	\$1.95	\$1.75	\$1.55

2.5mm Stereo Connector & Line Plug - IP67



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm Stereo Connector	PS-0789	\$14.95	\$13.35	\$11.70
Stereo Line Plug with 1m Cable	PP-0787	\$12.95	\$11.35	\$10.35

CABLE & CONNECTORS

3.5MM & 6.5MM CONNECTORS

3.5MM

3.5mm Miniature Plugs



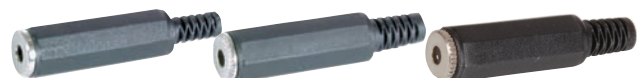
↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0114	\$0.85	\$0.75	\$0.65
Stereo	PP-0130	\$1.25	\$1.10	\$0.97
Stereo Right Angled	PP-0136	\$1.85	\$1.65	\$1.45
4 Contact	PP-0138	\$4.95	\$4.45	\$3.90

Metal Plugs With Cable Protection Spring



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0116	\$1.45	\$1.30	\$1.15
Stereo	PP-0135	\$1.85	\$1.65	\$1.45
Stereo Gold Plated	PP-0131	\$2.45	\$2.15	\$1.95

3.5mm Line Sockets



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0126	\$1.45	\$1.30	\$1.15
Stereo	PS-0134	\$1.95	\$1.75	\$1.55
Stereo Gold Plated	PS-0139	\$4.95	\$4.45	\$3.90

Slimline - Gold Plugs



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PP-0132	\$3.95	\$3.45	\$3.15
4 Pole	PP-0134	\$4.95	\$4.45	\$3.90

3.5mm Chassis Sockets

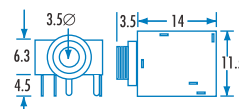


↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open	PS-0120	\$1.45	\$1.30	\$1.15
Mono Enclosed	PS-0122	\$0.95	\$0.85	\$0.75
Mono Insulated	PS-0123	\$2.45	\$2.15	\$1.95
Stereo	PS-0132	\$1.35	\$1.20	\$1.05

FIND OUT MORE IN STORE

**Our staff offer friendly and helpful service.
We're here to help.**

3.5mm PCB Socket



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
PCB Stereo Switched	PS-0133	\$1.65	\$1.45	\$1.30

3.5mm Adaptors - Mono



↑ Mono 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to RCA Socket	PA-3500	\$1.95	\$1.75	\$1.55
Plug to 6.5mm Mono Socket	PA-3506	\$1.95	\$1.75	\$1.55
Plug to 3.5mm Stereo Socket	PA-3584	\$1.95	\$1.75	\$1.55
Plug to 6.5mm Stereo Socket	PA-3594	\$1.95	\$1.75	\$1.55

3.5mm Adaptors - Stereo



↑ Stereo 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to 6.5mm Stereo Socket	PA-3586	\$2.95	\$2.60	\$2.30
Plug to 3.5mm Stereo R/A Socket	PA-3503	\$3.95	\$3.45	\$3.15
Plug to 2.5mm Stereo Socket	PA-3536	\$3.95	\$3.45	\$3.15
Plug to PAL (75 ohm) Socket	PA-3657	\$3.95	\$3.45	\$3.15
Plug to 2 x 3.5mm Stereo Sockets	PA-3582	\$3.95	\$3.45	\$3.15
Plug to 2 x RCA Sockets	PA-3580	\$3.95	\$3.45	\$3.15
Socket to 2 x 3.5mm Mono Plug	PA-3581	\$4.95	\$4.45	\$4.00

3.5MM STEREO SOCKET TO 3.5MM STEREO SOCKET



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3583	\$1.95	\$1.75	\$1.55

3.5MM STEREO SOCKET TO 2 X RCA SOCKETS ADAPTOR



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3585	\$2.55	\$2.25	\$1.95

Workbench sent to us by: Neil Jaycar Store: Rockingham

This is my small 10ft by 10ft hobby shed. I maintain my competition RC cars, boats and heli in there. Along with spray painting the RC car body shells and general electronic work on these models.

It's my small mancave.

For more details, visit:
www.jaycar.com.au/workbench



6.5MM 1/4"

6.5mm 1/4" Plugs PLUGS - LINE



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono - Plastic	PP-0150	\$1.00	\$0.90	\$0.80
Mono - Metal	PP-0154	\$1.85	\$1.65	\$1.45
Mono - Gold	PP-0156	\$3.95	\$3.45	\$3.15
Mono - Red	PP-0151	\$4.95	\$4.45	\$3.90
Mono - Black	PP-0152	\$4.95	\$4.45	\$3.90
Stereo - Plastic	PP-0170	\$1.70	\$1.50	\$1.35
Stereo - Metal	PP-0174	\$2.45	\$2.15	\$1.95
Stereo - Gold	PP-0175	\$5.25	\$4.60	\$4.15
Stereo - Red	PP-0177	\$4.95	\$4.45	\$3.90
Stereo - Black	PP-0178	\$4.95	\$4.45	\$3.90

6.5mm PRO METAL PLUGS

Made especially for the rigours of the road or anywhere where a heavy duty, tough 6.5mm plug is called upon. The mono plugs feature blue identification rings, whereas the stereo plugs have black rings. This is particularly handy if you have a combination of stereo and mono plugs on the one mixing desk or patch bay.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Metal - Pro	PP-0157	\$5.45	\$4.90	\$4.30
Stereo Metal - Pro	PP-0179	\$6.45	\$5.75	\$4.95

RIGHT ANGLE PLUGS

Super tough all metal construction plug for harsh environments and musos who want the best.

- Use with 6mm O.D. cable
- Strain relief provided.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Pro Right Angle	PP-0159	\$4.95	\$4.45	\$3.90
Right Angle	PP-0158	\$1.95	\$1.75	\$1.55
Stereo Right Angle	PP-0176	\$2.50	\$2.21	\$1.95

6.5mm 1/4" Line Sockets



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0166	\$1.65	\$1.45	\$1.30
Stereo	PS-0194	\$1.95	\$1.75	\$1.55

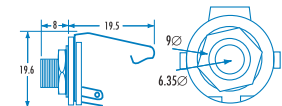
6.5mm 1/4" Flush Panel Socket

Ever tried to mount a 6.5mm socket in a wooden box? It was impossible! Now it's easy with our unique plastic mounting aid.



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Socket Mounting Cup	HS-8025	\$2.50	\$2.20	\$1.95

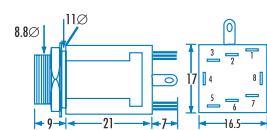
6.5mm 1/4" Chassis Sockets



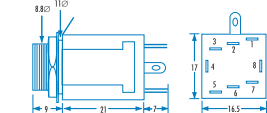
PS-0162



PS-0182



PS-0184

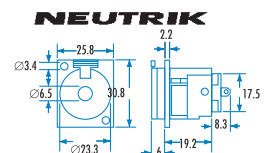


PROFESSIONAL LOCKING CHASSIS JACK

Metal shell, mates with all mono and stereo 6.5mm (1/4") phono plugs. Plug locking feature keeps plug in the socket.



PS-0196



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open Unswitched	PS-0162	\$1.95	\$1.75	\$1.55
Mono & Stereo	PS-0196	\$19.95	\$17.95	\$15.95
Stereo Switched DPDT	PS-0182	\$2.95	\$2.60	\$2.30
Stereo Insulated Switched	PS-0184	\$3.45	\$3.05	\$2.75

Workbench sent to us by: David Jaycar Store: Ferntree Gully

One room in my house. Have various projects on the go, and includes Arduino. I also play with stepper motors.

My fun place to be, when I can be in this space.



For more details, visit:
www.jaycar.com.au/workbench

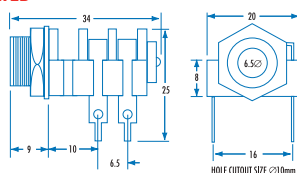
CABLE & CONNECTORS

3.5MM, 6.5MM & RCA CONNECTORS

6.5MM 1/4" (CONTINUED)

6.5mm PCB / Chassis Sockets

MONO INSULATED



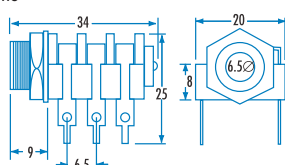
Closed when plug is NOT inserted



PS-0160

INSULATED DPST SWITCHED - STEREO

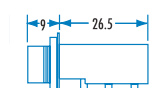
Works OK in mono



PS-0190

INSULATED UNSWITCHED - STEREO

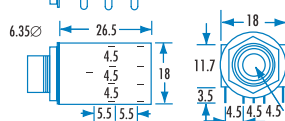
Works OK in mono



PS-0192

STEREO

- Sub-panel fixing



PS-0180

HIGH QUALITY - STEREO

- Switching DPST.
- Black plastic front insert
- Glossy chrome-finish nut.
- Stereo, but can be used for mono.
- Minimum Life: 10,000 insert/ withdraw cycles
- Contact Rating: 2.5A at 48VDC



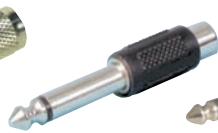
PS-0195

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Switched	PS-0160	\$2.45	\$2.15	\$1.95
Stereo Insulated DPST Switched	PS-0190	\$2.95	\$2.60	\$2.30
Stereo Insulated Unswitched	PS-0192	\$2.75	\$2.45	\$2.15
Stereo	PS-0180	\$2.95	\$2.60	\$2.30
Stereo	PS-0195	\$5.95	\$5.25	\$4.75

6.5mm Adaptors



PA-3588



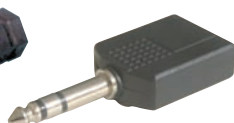
PA-3592



PA-3534



PA-3590



PA-3530



PA-3591

6.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Mono Socket to 6.5mm Mono Plug	PA-3588	\$1.95	\$1.75	\$1.55
Mono Plug to RCA Socket	PA-3592	\$1.95	\$1.75	\$1.55
Mono Plug to 2 x 6.5mm				
Mono Sockets	PA-3534	\$3.95	\$3.45	\$3.15
Stereo Plug 3.5mm Stereo Socket	PA-3590	\$1.95	\$1.75	\$1.55
Stereo Plug to 2 x 6.5mm				
Stereo Socket	PA-3530	\$3.95	\$3.45	\$3.15
Stereo Socket to 6.5mm Stereo Socket	PA-3591	\$3.95	\$3.45	\$3.15

SCART

SCART

Carries stereo audio, composite video, S-video & RGB. Used to carry signals from AV source to your TV and also allow recording to other sources, for example video recorders. Originated in Europe.



PP-0580



PA-3667



PA-3659



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
21 Pin Plug	PP-0580	\$0.95		
SCART Plug to RGB Adaptor	PA-3667	\$4.95		
SCART Plug to 3 RCA & S-Video Sockets	PA-3659	\$14.95	\$13.35	\$11.70

RCA PLUGS

PLUGS - PLASTIC

Economy style.



Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Blue	PP-0238	\$0.68	\$0.60	\$0.52
Green	PP-0239	\$0.68	\$0.60	\$0.52
Red	PP-0240	\$0.68	\$0.60	\$0.52
Black	PP-0242	\$0.68	\$0.60	\$0.52
Yellow	PP-0243	\$0.68	\$0.60	\$0.52
White	PP-0244	\$0.68	\$0.60	\$0.52

METAL BODY RCA PLUGS WITH CABLE PROTECTION SPRING



NICKEL	Cat	Qty 1+	Qty 10+	Qty 50+
	PP-0245	\$1.95	\$1.75	\$1.55
GOLD PLATED 7mm Cable	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0236	\$3.25	\$2.90	\$2.60
Black	PP-0237	\$3.25	\$2.90	\$2.60

PREMIUM GOLD PLATED METAL BODY RCA PLUGS



Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0230	\$3.95	\$3.45	\$3.15
Black	PP-0232	\$3.95	\$3.45	\$3.15
Yellow	PP-0231	\$3.95	\$3.45	\$3.15
White	PP-0233	\$3.95	\$3.45	\$3.15
Blue	PP-0234	\$3.95	\$3.45	\$3.15
Green	PP-0235	\$3.95	\$3.45	\$3.15

COMPRESSION CRIMP RCA

For high end audio and video. Recommended for Pay TV, HDTV, Component and RGB.



COMPRESSION CRIMP	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0200	\$2.95		
Yellow	PP-0204	\$4.50	\$3.95	\$3.60

CRIMPLESS RG6 PLUGS

Crimpless and solderless. All metal construction, requiring no tools to fit.



PP-0205



PP-0206



PP-0209

Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0205	\$3.50	\$3.15	\$2.75
Yellow	PP-0206	\$3.50	\$3.15	\$2.75
Green	PP-0209	\$1.95		

RCA SOCKETS

RCA Plug & Socket with Spring Terminals

RCA connector to spring terminal block.
No tools required.



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug	PA-3717	\$4.95	\$4.45	\$4.00
Socket	PA-3718	\$4.95	\$4.45	\$4.00

RCA Line Sockets

RCA (PHONO) LINE SOCKETS
Plastic Economy style.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS-0250	\$0.60	\$0.52	\$0.47
Black	PS-0252	\$0.60	\$0.52	\$0.47

METAL BODY RCA SOCKETS WITH CABLE PROTECTION SPRING



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Nickel Plated	PS-0254	\$1.95	\$1.75	\$1.55
Gold Plated - Red	PS-0272	\$2.45	\$2.15	\$1.95
Gold Plated - Black	PS-0274	\$2.45	\$2.15	\$1.95

RCA Chassis Sockets

NICKEL PLATED
Non Insulated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Nickel Plated - Black	PS-0256	\$0.95	\$0.85	\$0.75
Nickel Plated - Red	PS-0257	\$0.95	\$0.85	\$0.75
Nickel Plated - Yellow	PS-0255	\$0.95	\$0.85	\$0.75

RCA CHASSIS SOCKETS - GOLD

Non Insulated



Gold Plated	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS-0258	\$1.95	\$1.75	\$1.55
Red	PS-0259	\$1.95	\$1.75	\$1.55
Yellow	PS-0260	\$1.95	\$1.75	\$1.55
White	PS-0261	\$1.95	\$1.75	\$1.55
Blue	PS-0270	\$1.95	\$1.75	\$1.55
Green	PS-0271	\$1.95	\$1.75	\$1.55

RCA CHASSIS SOCKETS - GOLD

Requires 9.5mm dia panel hole

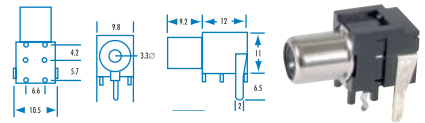


Gold Plated Ins	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS-0276	\$3.95	\$3.45	\$3.15
Red	PS-0277	\$3.95	\$3.45	\$3.15
Yellow	PS-0275	\$3.95	\$3.45	\$3.15
White	PS-0278	\$3.95	\$3.45	\$3.15

In addition to the products above, we also have a large range of interconnection leads with RCA plugs or sockets on one end and RCAs - or many other types on the other.

RCA Right Angle Socket

- Black insert only
- Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Right Angle	PS-0279	\$1.45	\$1.30	\$1.15

For a huge range of screened audio cable to suit these products see page 197.

RCA ADAPTORS

RCA Socket Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Female to RCA Female	PA-3598	\$2.95	\$2.60	\$2.30
RCA Plug to 2 x RCA Socket	PA-3560	\$3.95	\$3.45	\$3.15
1 x RCA Socket to 2 x RCA Socket	PA-3562	\$3.95	\$3.45	\$3.15
RCA Socket to RCA Socket	PA-3599	\$5.95	\$5.25	\$4.75
3 x RCA Socket to 3 x RCA Socket	PA-3564	\$7.95	\$6.95	\$6.25
RCA Socket to BNC Socket	PA-3678	\$3.95	\$3.45	\$3.15
Double Adaptor - Gold Plated	PA-3570	\$5.95	\$5.25	\$4.75

Panel Mount - RCA Socket to Socket

Gold plated, panel mounted RCA socket to RCA socket adaptors.

- Insulated



Allows you to plug straight into the back of the socket

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Yellow	PS-0441	\$3.95	\$3.45	\$3.15
Red	PS-0442	\$3.95	\$3.45	\$3.15
Black	PS-0443	\$3.60	\$3.15	\$2.85
Green	PS-0444	\$3.60	\$3.15	\$2.85
Blue	PS-0445	\$3.60	\$3.15	\$2.85
White	PS-0446	\$3.95	\$3.45	\$3.15

Workbench sent to us by:

Andrew Jaycar Stockist:
Tech Central - Taupo

My workspace...all cleaned up and ready for the next project..

For more details, visit:
www.jaycar.com.au/workbench



CABLE & CONNECTORS RCA & AUDIO CONNECTORS

RCA ADAPTORS (CONTINUED)

RCA Plug to Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Plug to 3.5mm Mono Socket	PA-3508	\$1.95	\$1.75	\$1.55
RCA Male to RCA Male Socket	PA-3597	\$2.95	\$2.60	\$2.30
RCA Plug to 6.5mm Mono Socket	PA-3510	\$1.95	\$1.75	\$1.55
RCA Plug to PAL TV Socket	PA-3676	\$3.95	\$3.45	\$3.15
RCA Male to F-81 Socket	PA-3677	\$3.45	\$3.05	\$2.75
RCA Plug to BNC Female Socket	PA-3655	\$3.95	\$3.45	\$3.15
RCA Adaptor	PA-3566	\$4.95	\$4.45	\$3.90

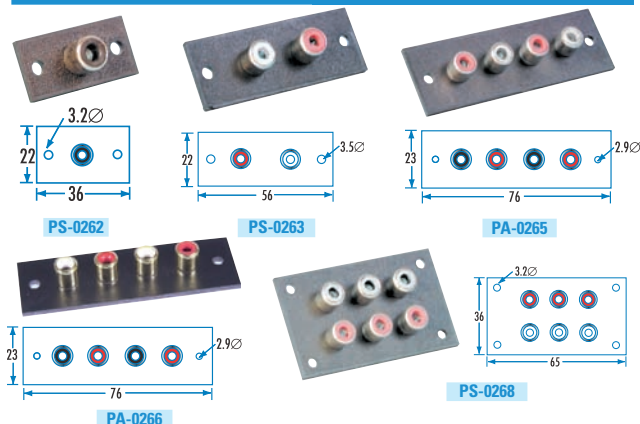
GOLD PLATED CONNECTORS

For Use With Wallplates



Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Binding Post with Banana - Red	PS-0490	\$3.95	\$3.45	\$3.15
Binding Post with Banana - Black	PS-0491	\$3.95	\$3.45	\$3.15
Banana Socket Binding Post - Red	PS-0492	\$2.95	\$2.60	\$2.30
Banana Socket Binding Post - Black	PS-0493	\$2.95	\$2.60	\$2.30
RCA Socket to F-61 Socket	PS-0494	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Blue	PS-0489	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Red	PS-0495	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Black	PS-0496	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Yellow	PS-0497	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Green	PS-0499	\$2.45	\$2.15	\$1.95
F-61 Socket to F-61 Socket	PS-0498	\$2.45	\$2.15	\$1.95

RCA PHENOLIC SOCKETS



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
1 Way	PS-0262	\$1.10	\$0.95	\$0.85
2 Way	PS-0263	\$1.65	\$1.45	\$1.30
4 Way	PA-0265	\$2.95	\$2.65	\$2.35
4 Way Gold Plated	PA-0266	\$3.95	\$3.55	\$3.15
6 Way	PS-0268	\$3.95	\$3.45	\$3.15

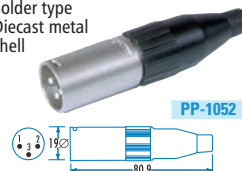
XLR - AMPHENOL

Typically used for balanced connections such as professional microphones; these connectors are 3 pin and lock on to the socket. The confusion over whether pin 2 or 3 is hot has only relatively recently been resolved. The Standard has been defined by the Audio Engineering Society which we have outlined on the bottom of the previous page.

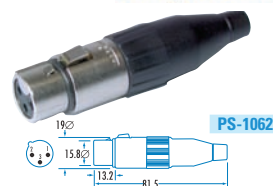
Amphenol® have taken over the genuine Cannon brand.

LINE - 3 PIN

- Solder type
- Diecast metal shell



Amphenol®



LINE - 4 PIN

Cannon/Amphenol Silver

- Diecast metal shell
- Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1052	\$7.95	\$7.15	\$6.35
3 Pin - Female	PS-1062	\$8.95	\$8.05	\$7.15
4 Pin - Male	PP-1040	\$11.95	\$10.70	\$9.50
4 Pin - Female	PS-1042	\$15.95	\$14.35	\$12.70

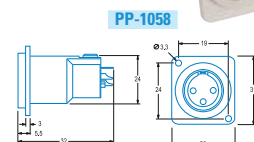
CHASSIS MOUNT D-SERIES XLR SOCKETS

High quality Amphenol brand XLR 3 pole chassis mount sockets. Can be front or rear mounted in P or D series panels.

- 24mm hole cut-out
- D series flange
- Stamped phosphor
- Bronze contacts
- Nickel finish
- Max Wire Gauge: 14AWG
- Flammability Rating: UL94-V0
- Current Carrying Capacity: 15A
- RoHS Compliant.

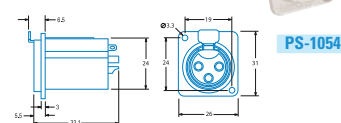
MALE

- Ideal for patch panels, studio etc



FEMALE

- Ideal for balanced microphone inputs on mixers, patch panels etc.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Male	PP-1058	\$6.95	\$6.25	\$5.50
Female	PS-1054	\$8.95	\$8.05	\$7.15

XLR WIRING

The Standard is defined by the Audio Engineering Society in AES14-1992(r1998)

Pin 1: Shield/Ground Pin 2: Hot/in Phase / + Pin 3: Cold / Out of Phase / -

To create an unbalanced connection, pin 1 & pin 3 are connected to ground & pin 2 carries the signal.

Note that there is a lot of equipment (particularly in the US) that has pin 2 & pin 3 designations reversed (i.e. 3 hot, 2 cold). Manufacturers are adopting the Standard on all new equipment.



MALE



FEMALE

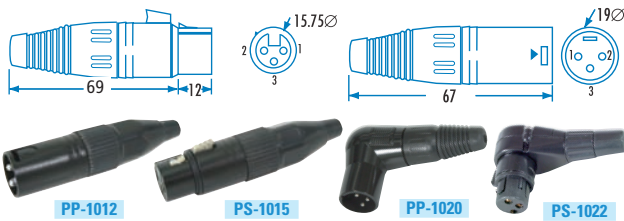
As seen from front of connectors

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Our staff offer friendly and helpful service.
We're here to help.

CANNON / XLR TYPE

3 Pin Line **SOANAR**



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Male	PP-1012	\$4.50	\$3.95	\$3.60
3 Pin Black - Female	PS-1015	\$4.95	\$4.45	\$3.90
3 Pin R/A Black - Male	PP-1020	\$9.95	\$8.75	\$7.75
3 Pin R/A Black - Female	PS-1022	\$9.95	\$8.75	\$7.75

Waterproof IP67 XLR Line Connectors

A matching IP67 waterproof plug and socket suitable for harsh environments. Great for use with PA gear and cabling that are used in outdoor conditions.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Line Plug IP67	PP-1013	\$9.95	\$8.75	\$7.75
3 Pin Black - Line Socket IP67	PS-1017	\$9.95	\$8.75	\$7.75

Combo XLR / 6.35mm Stereo Socket Switched

Combined 3 pole XLR & 6.35mm stereo jack for balanced microphone or line. It will accept 6.35mm mono, 6.35mm stereo or 3-pin male XLR.

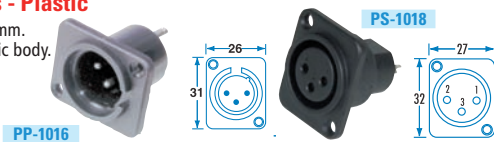
- Suits D-series panel cut-outs.
- Non-locking.
- Panel or PCB mounting
- Switched - Independent inputs
- Gold plated contacts



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Combo XLR / 6.35mm Stereo Socket Switched	PS-1069	\$9.95	\$8.75	\$7.75

3 pin Chassis - Plastic

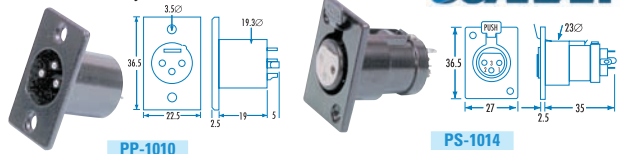
- Hole cutout 22mm.
- Black ABS plastic body.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic - Male	PP-1016	\$3.95	\$3.45	\$3.15
Plastic - Female	PS-1018	\$3.95	\$3.45	\$3.15

3 Pin Chassis - Metal

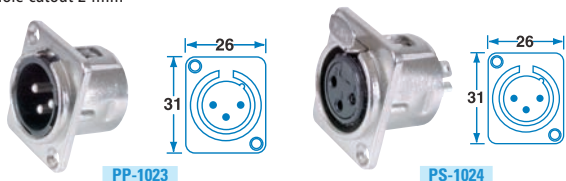
Black. Diecast body



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Metal - Male - Hole cutout 20mm	PP-1010	\$4.50	\$3.95	\$3.60
Metal - Female - Hole cutout 24mm	PS-1014	\$6.50	\$5.75	\$4.95

Chassis Metal

- Small size, diecast body, nickel plated
- Hole cutout 24mm



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Small Size Metal - Male	PP-1023	\$5.95	\$5.25	\$4.75
Small Size Metal - Female	PS-1024	\$6.95	\$6.25	\$5.50

Rubber XLR Cover Boot

This cover will mean you can effectively operate a PA or sound system outdoors in inclement weather without undue damage. This flexible boot slips over the entire XLR - XLR connection to keep water and dust out. Even if you aren't planning to use your system in the rain, they're still indispensable for protecting permanent connections from damage and dust.

- 120mm long.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Rubber XLR Cover Boot	PM-1034	\$1.65	\$1.45	\$1.30

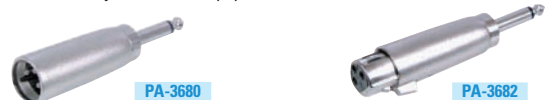
XLR Adaptors 3 PIN ADAPTORS



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA-3684	\$12.95	\$11.35	\$10.35
Female	PA-3686	\$11.95	\$10.75	\$9.55

3 PIN CANNON TYPE SOCKET TO 6.5MM PLUG ADAPTOR

These are high quality, all metal construction adaptors suitable for stage or studio use. They're ideal for converting microphone cannon leads to 6.5mm plugs ready for 4-track recorders or any other audio equipment with 6.5mm sockets



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Female	PA-3682	\$12.95	\$11.35	\$10.35
Male	PA-3680	\$8.95	\$7.95	\$6.95

XLR TO RCA ADAPTOR



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA-3800	\$9.95	\$8.75	\$7.75
Female	PA-3802	\$9.95	\$8.75	\$7.75

MICROPHONE SERIES

MICROPHONE LINE FEMALE

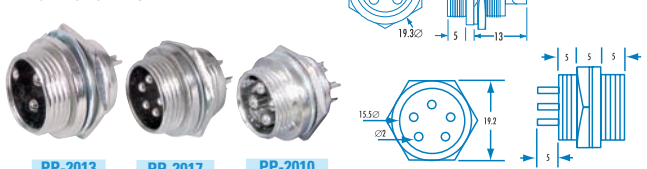
- Solid metal machined body
- Nickel plated
- Also suitable for secure, low voltage DC connection
- 10A max 32VDC



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS-2014	\$2.95	\$2.60	\$2.30
4 Pin	PS-2012	\$2.95	\$2.60	\$2.30
5 Pin	PS-2018	\$3.45	\$3.05	\$2.75

MICROPHONE CHASSIS MALE

- Solid metal machined body
- Nickel plated
- 10A max 32VDC



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP-2013	\$2.95	\$2.60	\$2.30
4 Pin	PP-2010	\$2.95	\$2.60	\$2.30
5 Pin	PP-2017	\$3.45	\$3.05	\$2.75

CABLE & CONNECTORS

MULTI-PIN AUDIO CONNECTORS

MINI XLR

3, 4 Pin Line

- Diecast body
- Nickel plated

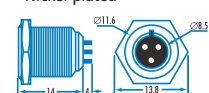


Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1910	\$5.95	\$5.25	\$4.75
3 Pin - Female	PS-1924	\$6.95	\$6.25	\$5.50
4 Pin - Male	PP-1912	\$6.95	\$6.25	\$5.50
4 Pin - Female	PS-1926	\$6.95	\$6.25	\$5.50

3, 4 Pin Chassis

3 PIN MALE

- Diecast body
- Nickel plated



SOANAR



PP-1916

4 PIN FEMALE

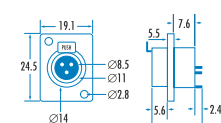
Cut out 15mm



PS-1932

3 PIN FEMALE

Cut out 15mm.



PS-1930

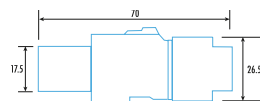
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1916	\$7.95	\$6.95	\$6.25
3 Pin - Female	PS-1930	\$9.95	\$8.75	\$7.75
4 Pin - Male	PP-1918	\$7.95	\$6.95	\$6.25
4 Pin - Female	PS-1932	\$9.95	\$8.75	\$7.75

AUDIO - ECONOMY RANGE

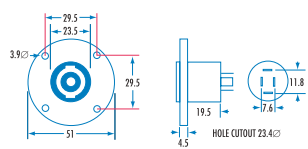
SOANAR



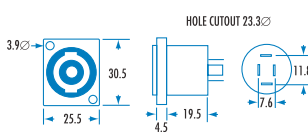
PP-1080



PS-1084



PS-1082



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker 4 Pole Connector	PP-1080	\$12.95	\$11.35	\$10.35
Round Speaker Bin Socket	PS-1084	\$9.95	\$8.75	\$7.75
Square Speaker Chassis Socket	PS-1082	\$9.95	\$8.75	\$7.75

Speakon Lead Extender

Connects Speakon leads together to extend cable runs as far as you need to.

- ABS construction.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PA-3689		\$12.95	\$11.35	\$10.35

Speakon Audio Leads

Speakon connectors are the standard for speaker connections in PA and sound reinforcement applications, and if you're building or installing a system they're the only way to go. You could buy the cable and connectors and put them together, or buy these excellent ready-made cable assemblies.



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
5 metre	WA-7100	\$29.95	\$26.95	\$23.95
10 metre	WA-7102	\$44.95	\$40.45	\$35.90

"SPEAKON" LOUDSPEAKER

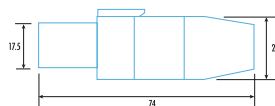
NEUTRIK

Heavy duty, fail-safe speaker connectors

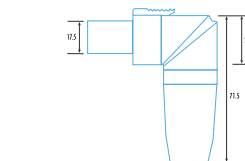
- 4 pole with Locking ring
- 30 amp continuous current
- Solderless termination
- The standard in high power PA speaker connections
- PS-1094 & PS-1092 hole cutout 24mm



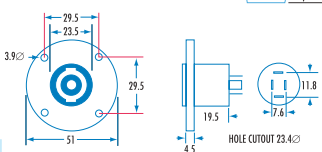
PP-1090



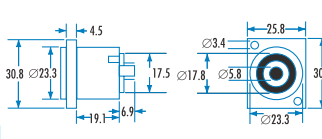
PP-1091



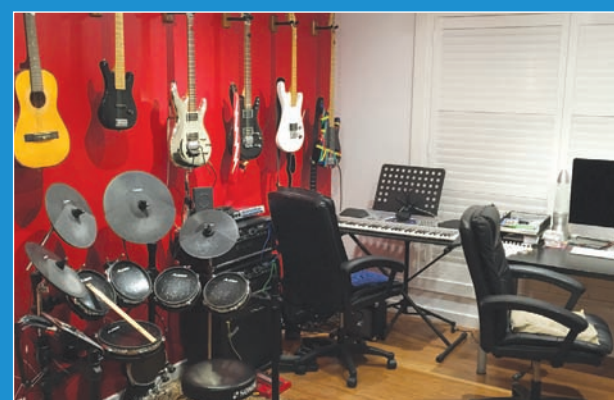
PS-1094



PS-1092



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker Connector 4 Pole	PP-1090	\$14.95	\$13.35	\$11.70
Inline Speaker Plug	PP-1091	\$19.95	\$17.95	\$15.95
Round Speaker Bin Chassis Mount Plastic	PS-1094	\$11.95	\$10.70	\$9.50
Square Chassis Mount Plastic	PS-1092	\$11.95	\$10.70	\$9.50



Workbench sent to us by: Martyn Jaycar Store: Fyshwick

The Man Cave is the most important room in the house. Its the hobby room, the retreat, the place of creation.

For more details, visit: www.jaycar.com.au/workbench

WALLPLATES STAINLESS STEEL

No matter what audio installation you're contemplating, you're sure to find a wallplate to give your room that pro look. Finished in attractive stainless steel, these cost-effective wallplates have all the popular audio connectors, or use a blank to customise your own. Ideal for Hi-Fi installations, home studios, home theatre or just a neat solution to running an AV extension to another room.

Blank Wallplate

Stainless steel blank wallplate

Looking for more wallplates?
See page 366



Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Blank	PS-0550	\$3.95	\$3.45	\$3.15

XLR - Blank

Pre-punched blanks for XLR sockets.

• Sockets not included



Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single Blank	PS-0551	\$4.50	\$3.95	\$3.60
Double Blank	PS-0552	\$4.95	\$4.45	\$3.90

XLR - Loaded

Pre-punched wallplate with loaded XLR socket(s).



Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single 3 pin Female XLRs	PS-0553	\$6.95	\$6.25	\$5.50
Double 3 pin Female XLRs	PS-0554	\$9.95	\$8.75	\$7.75

WALLPLATES

Wallplate Inserts For AV Outlets

This series of blank wallplate inserts and AV connectors are designed to provide custom audio/video outlets. Provide stereo line level audio to a house or office, for example, or install cable TV outlets throughout the house. All fit standard household power point bases and brackets. The AV connectors fit only one way in the plates, so you have a front and rear connection.



PS-0293

PS-0294

PS-0480



PS-0481

PS-0482



PS-0483

PS-0484



PS-0485

PS-0486

Type	Cat.	Qty 1+	Qty 2+	Qty 5+
3 Way	PS-0293	\$8.95	\$7.95	\$6.95
4 Way	PS-0294	\$9.95	\$8.75	\$7.75
Blank Plate	PS-0480	\$2.50	\$2.21	\$1.95
1 Way Plate	PS-0481	\$2.95	\$2.60	\$2.30
2 Way Plate	PS-0482	\$2.95	\$2.60	\$2.30
3 Way Plate	PS-0483	\$2.95	\$2.60	\$2.30
4 Way Plate	PS-0484	\$2.95	\$2.60	\$2.30
6 Way Plate	PS-0485	\$2.95	\$2.60	\$2.30
8 Way Plate	PS-0486	\$2.95	\$2.60	\$2.30

KEYSTONE INSERTS

Inserts for Keystone Wallplates

A range of inserts to cater for computer and Audio video applications. They fit standard 110 keystone wallplates and allow you to configure your installation any way you like.



Type	Cat.	Qty 1+	Qty 5+	Qty 10+
TOSLINK - TOSLINK	PS-0749	\$3.95	\$3.45	\$3.15
USB - USB Female	PS-0753	\$4.95	\$4.45	\$3.90
USB - USB - Right Angle	PS-0795	\$5.50	\$4.90	\$4.30
F81 - F81 - White	PS-0761	\$2.95	\$2.60	\$2.30
BNC - BNC - White	PS-0763	\$2.95	\$2.60	\$2.30
RCA - RCA - White	PS-0764	\$2.95	\$2.60	\$2.30
RCA - RCA - Red	PS-0765	\$2.95	\$2.60	\$2.30
RCA - RCA - Yellow	PS-0767	\$2.95	\$2.60	\$2.30
RCA - RCA - Blue	PS-0794	\$2.95	\$2.60	\$2.30
RCA - RCA - Green	PS-0798	\$2.95	\$2.60	\$2.30
S-Video - S-Video	PS-0769	\$2.95		
HDMI - HDMI - White	PS-0771	\$9.95	\$8.75	\$7.75
HDMI - HDMI Right Angle	PS-0796	\$9.95	\$8.75	\$7.75
HDMI - HDMI with Flylead	PS-0797	\$12.95	\$11.35	\$10.35
USB - USB - White	PS-0773	\$4.95	\$4.45	\$3.90
4mm Banana - Red	PS-0774	\$2.95	\$2.60	\$2.30
4mm Banana - Black	PS-0775	\$2.95	\$2.60	\$2.30
3.5mm Stereo Socket	PS-0777	\$2.95	\$2.60	\$2.30
Blank Insert	PS-0779	\$0.30	\$0.25	\$0.24
USB 3.0 - USB 3.0 - White	PS-0799	\$12.95	\$11.35	\$10.35

VGA WALLPLATES & SOCKETS

15 Pin VGA Socket Wallplate

A wallplate that can be used on projectors, monitors and high end TVs. Comes with mounting hardware, screws and screw mounting centres for easy flush mount installation.

• Installation is made easy via the screw terminal on the rear mounted PCB.



Cat.	Qty 1+
PT-0476	\$14.95

VGA Wallplate with 3.5mm Audio Socket

Standard wallplate with VGA and 3.5mm audio socket.



Cat.	Qty 1+	Qty 5+	Qty 10+
PT-0477	\$19.95	\$17.70	\$15.70

CABLE & CONNECTORS

BANANA CONNECTORS

BANANA

TECH TALK!

Banana plugs & sockets originally started life on test equipment. Their versatility quickly saw them as output connectors for power supplies. When they were integrated with binding posts they quickly saw use as speaker connectors. Now they are everywhere.

Banana Plugs

PLUGS - PIGGY BACK

With this quality piggy back style, another banana plug can be inserted into the back of the plug.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0390	\$1.95	\$1.75	\$1.55
Black	PP-0391	\$1.95	\$1.75	\$1.55
Green	PP-0381	\$1.95	\$1.75	\$1.55
Blue	PP-0382	\$1.95	\$1.75	\$1.55
Yellow	PP-0383	\$1.95	\$1.75	\$1.55

Piggy back insulating shroud type. Works with our PS-0420-24 series.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0385	\$2.45	\$2.15	\$1.95
Black	PP-0386	\$2.45	\$2.15	\$1.95
Green	PP-0387	\$2.45	\$2.15	\$1.95
Blue	PP-0388	\$2.45	\$2.15	\$1.95
Orange	PP-0389	\$2.45	\$2.15	\$1.95

PLUGS



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red - 4mm	PP-0400	\$0.95	\$0.85	\$0.75
Black - 4mm	PP-0402	\$0.95	\$0.85	\$0.75
Red - Right Angle	PP-0394	\$2.25	\$1.95	\$1.80
Black - Right Angle	PP-0395	\$2.25	\$1.95	\$1.80

PLUGS - METAL GOLD PLATED

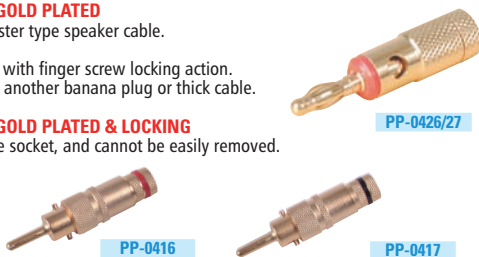
Designed for monster type speaker cable.

- Side entry hole, with finger screw locking action.
- Hole will accept another banana plug or thick cable.

PLUGS - METAL GOLD PLATED & LOCKING

These lock into the socket, and cannot be easily removed.

- Gold plated



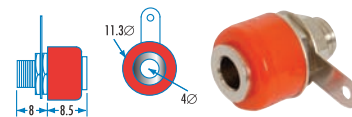
↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0426	\$4.95	\$4.45	\$3.90
Black	PP-0427	\$4.95	\$4.45	\$3.90
Red - Locking	PP-0416	\$7.95	\$6.95	\$6.25
Black - Locking	PP-0417	\$7.95	\$6.95	\$6.25

4MM BANANA SOCKET TO ALLIGATOR CLIP



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PA-3668	\$2.75	\$2.45	\$2.15
Black	PA-3669	\$2.75	\$2.45	\$2.15

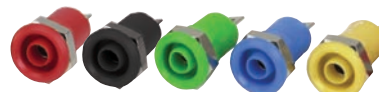
Banana Chassis Sockets



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red - 4mm	PS-0406	\$0.65	\$0.57	\$0.50
Black - 4mm	PS-0408	\$0.65	\$0.57	\$0.50

FULLY INSULATED

Works with our PP-0385-89 series.



↑ Fully Insulated	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS-0420	\$2.25	\$1.95	\$1.80
Black	PS-0421	\$2.25	\$1.95	\$1.80
Green	PS-0422	\$2.25	\$1.95	\$1.80
Blue	PS-0423	\$2.25	\$1.95	\$1.80
Yellow	PS-0424	\$2.25	\$1.95	\$1.80

Includes a plastic cover to reduce the risk of shorting. Grub screws for internal wire connection. Hole size is 12mm. Cable hole 5mm dia. Available in red or black.

- Gold plated

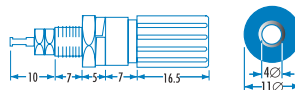


↑ Fully Insulated Gold	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0436	\$6.95	\$6.25	\$5.55
Black	PP-0437	\$6.95	\$6.25	\$5.55

Binding Posts

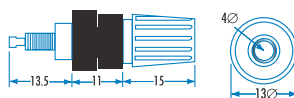
STANDARD

Incorporates a banana socket.



PREMIUM

Super quality with metal thread.



DUAL

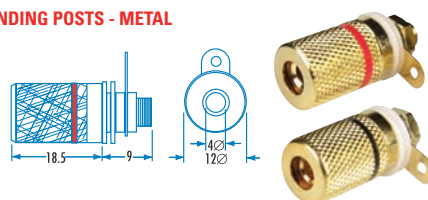
- Insulated cable entry.
- Post spacing 19mm.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Blue Standard	PT-0450	\$1.65	\$1.45	\$1.30
Yellow Standard	PT-0451	\$1.65	\$1.45	\$1.30
White Standard	PT-0452	\$1.65	\$1.45	\$1.30
Red Standard	PT-0453	\$1.65	\$1.45	\$1.30
Black Standard	PT-0454	\$1.65	\$1.45	\$1.30
Green Standard	PT-0455	\$1.65	\$1.45	\$1.30
Red Premium	PT-0460	\$2.95	\$2.65	\$2.35
Black Premium	PT-0461	\$2.95	\$2.65	\$2.35
Green Premium	PT-0462	\$1.95	\$1.75	\$1.55
Dual	PT-0457	\$6.95	\$6.25	\$5.50

BANANA SOCKETS / BINDING POSTS - METAL

Will accept a banana plug in the end and monster type cable or banana plug in the side. Designed for mounting on the back of amplifiers as mounting thread is only 6mm long

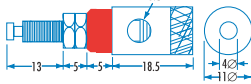


↑ Amplifier Mount	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PT-0430	\$4.95	\$4.45	\$3.90
Black	PT-0431	\$4.95	\$4.45	\$3.90

BANANA (CONTINUED)

Speaker Box Mount

These have a hole entry on the side which will accept monster type speaker cable or a banana plug. Thread is 19mm long.



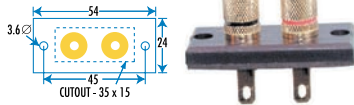
Speaker Box Mount	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0434	\$4.95	\$4.45	\$3.90
Black	PP-0435	\$4.95	\$4.45	\$3.90

BANANA / SCREW TYPE

2 Way Gold Terminals

Top quality speaker terminal with gold banana sockets which also have a huge hole (6mm) to accept Monster type speaker cable.

- Supplied with gasket.
- Dimensions: 54(W) x 24(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	PT-3008	\$9.95	\$8.75	\$7.75

Banana Socket Wallplates

- Standard power point size.
- Red & black



PS-0412

PS-0414



Socket	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	PS-0412	\$6.95	\$6.25	\$5.50
4 Way	PS-0414	\$8.95	\$7.95	\$6.95

Banana Socket / Binding Post Wallplates

- Standard power point size.
- Gold plated



PT-0470

PT-0472

PT-0474

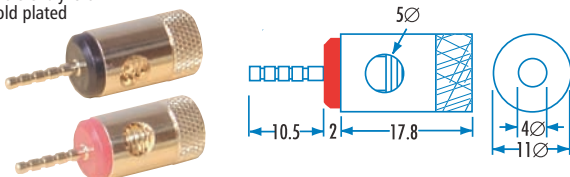
Socket / Binding Post	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	PT-0470	\$11.95	\$10.70	\$9.50
4 Way	PT-0472	\$17.95	\$15.95	\$14.35
8 Way	PT-0474	\$24.95	\$22.35	\$19.70

SPEAKER PUSH/SCREW TERMINALS

JUMBO SPEAKER CABLE TERMINALS

Can't fit your large speaker cable into your speaker box spring terminals? Problem solved!! Simply terminate the thick cable into these gold connectors and the 1.5mm dia. pin easily fits into speaker rear terminals.

- Cable entry is 6mm.
- Gold plated

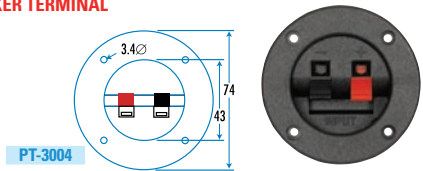


Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Red	PT-3020	\$2.65	\$2.30	\$2.07
Black	PT-3021	\$2.65	\$2.30	\$2.07

LARGE ROUND SPEAKER TERMINAL

Up to 16 AWG cable.

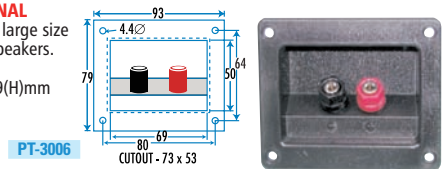
- Cutout 50mm.
- PT-3004



SPEAKER BOX TERMINAL

Ideal if you are running large size speaker cable to your speakers.

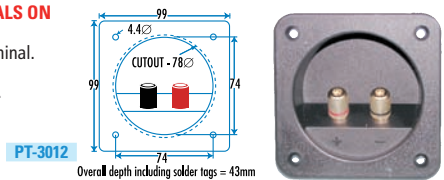
- Dimensions 92(W)x79(H)mm
- PT-3006



2 WAY GOLD TERMINALS ON A PLATE

Top quality speaker terminal.

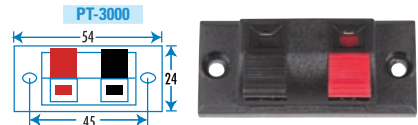
- Plate size 99 x 99mm.
- Hole cutout is round - diameter 78mm.
- PT-3012



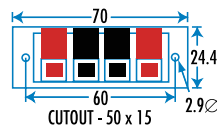
2 WAY - UP TO 16AWG

Up to 16AWG cable.

- Mounting holes: 45mm apart
- Dimensions: 54(L) x 24(W)mm
- PT-3000



4 WAY - UP TO 16AWG



PT-3002

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Way Round	PT-3004	\$2.95	\$2.60	\$2.30
Speaker Box	PT-3006	\$6.95	\$6.25	\$5.50
2 Way Gold / Plate	PT-3012	\$11.95	\$10.70	\$9.50
2 Way	PT-3000	\$1.75	\$1.55	\$1.40
4 Way	PT-3002	\$2.95	\$2.60	\$2.30



Workbench sent to us by: Doug Jaycar Store: Maddington

Hi, This is my study/workshop where I spend endless hours repairing whatever needs repairing and teaching myself Photoshop.

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CABLE & CONNECTORS

MULTI-PIN AUDIO/VIDEO CONNECTORS

DIN

TECH TALK!

Originally a German standard, these connectors are available in versions from 2 to 13 pins. Once widely used, these are now seen less on AV equipment. The 2 pin version is used for some loudspeakers and 5 pin version is still used for connecting MIDI electronic musical instruments & older PC keyboards.

Line DIN Plugs



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP-0300	\$0.65	\$0.57	\$0.50
3 Pin	PP-0302	\$0.95	\$0.85	\$0.75
5 Pin	PP-0304	\$1.00	\$0.90	\$0.80
5 Pin 240°	PP-0305	\$1.25	\$1.10	\$0.97
5 Pin Premium Die Cast	PP-0306	\$3.75	\$3.30	\$2.95
6 Pin	PP-0308	\$1.45	\$1.30	\$1.15
7 Pin	PP-0310	\$1.65	\$1.45	\$1.30
8 Pin	PP-0312	\$1.85	\$1.65	\$1.45

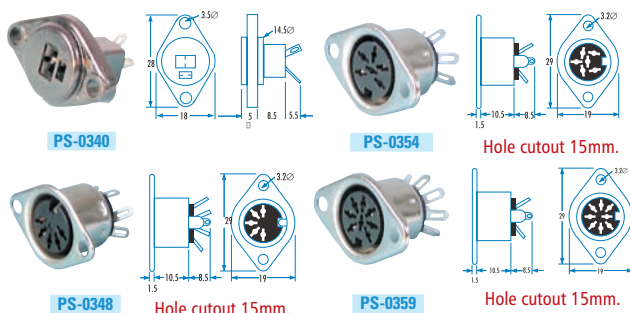
Line Sockets - 5, 6, 8 Pin



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin	PS-0352	\$1.85	\$1.65	\$1.45
6 Pin	PS-0355	\$2.45	\$2.15	\$1.95
8 Pin	PS-0358	\$2.95	\$2.60	\$2.30

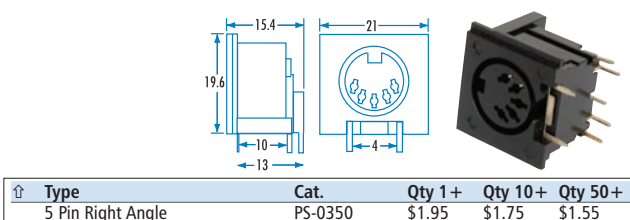
2, 5, 6, 8 Pin Panel Sockets

- Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS-0340	\$1.45	\$1.30	\$1.15
5 Pin	PS-0348	\$1.65	\$1.45	\$1.30
6 Pin	PS-0354	\$1.95	\$1.75	\$1.55
8 Pin	PS-0359	\$2.95	\$2.60	\$2.30

5 Pin Right Angle PCB Socket



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin Right Angle	PS-0350	\$1.95	\$1.75	\$1.55

MINI DIN

Mini DIN plugs



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin - Nickel Plated	PP-0362	\$3.95	\$3.45	\$3.15
4 Pin - Nickel Plated	PP-0364	\$1.75	\$1.55	\$1.40
4 Pin - Gold Plated - 6mm	PP-0365	\$5.95	\$5.25	\$4.75
6 Pin - Nickel Plated	PP-0366	\$1.95	\$1.75	\$1.55
8 Pin - Nickel Plated	PP-0370	\$1.95	\$1.75	\$1.55

4, 6 Pin Line Sockets



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS-0372	\$1.95	\$1.75	\$1.55
6 Pin	PS-0368	\$2.25	\$1.95	\$1.80

MINI DIN / S-VIDEO

4, 6, 8 Pin Panel Sockets

- Cutout 10mm.
- Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS-0376	\$2.75	\$2.45	\$2.15
6 Pin	PS-0377	\$2.75	\$2.45	\$2.15
8 Pin	PS-0378	\$0.95		

Mini DIN / S-Video Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
S-Video Plug to RCA Video Socket	PA-3577	\$8.95	\$7.95	\$6.95
S-Video to RCA Video	PA-3578	\$7.95	\$6.95	\$6.25
S-Video Joiner	PA-3573	\$9.95	\$8.75	\$7.75
6 Pin Mini DIN Adaptor	PA-0878	\$7.95	\$6.95	\$6.25

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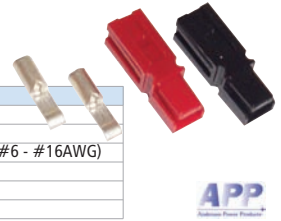
HIGH CURRENT CONNECTORS

Used widely in both domestic & industry, you'll find these used in many 4WD, boating, automotive and other industry applications.

Individual Nesting Connectors

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red and black pair with contacts.

Specifications	PT-4402	PT-4405	PT-4406	PT-4407
Contact Rating	15A	30A	45A	75A
Voltage	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Contact Wire Size	0.52-1.3mm ² (20-16AWG)	1.63-2.59mm (10-14AWG), closed barrel	1.63-2.59mm (10-14AWG), open barrel	1.3mm - 13mm (#6 - #16AWG)
Max Wire Insulation Dia	2.54mm	4.4mm	4.4mm	1.3 - 13.3mm
Contact Retention Force	9kgs (20lbs)	9kgs (20lbs)	9kgs (20lbs)	22kgs (50lbs)
Operating Temperature	-20 to +105°C	-40 to +125°C	-40 to +125°C	-40 to +125°C



APP
Anderson Power Products

See page 472 for our Anderson Connector comparison guide.

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
15A	PT-4402	\$3.95	\$3.55	\$3.15
30A	PT-4405	\$4.95	\$4.45	\$3.90
45A	PT-4406	\$4.95	\$4.45	\$3.90
75A	PT-4407	\$11.95	\$10.70	\$9.50

Anderson 35A SBS Mini Connectors

These compact mini connectors can handle up to 600 volts continuous in AC or DC with current up to 35A. The mechanical and colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly in the factory or the field. The touchsafe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load. Supplied as a moulded 2 pole with contacts

Specifications	PT-4480	PT-4482	PT-4484
Housing Colour	Black	Red	Grey
Contact Rating	35A	35A	35A
Contact Wire Size	10 AWG	10 AWG	10 AWG
Voltage Rating	600 (AC or DC)	600 (AC or DC)	600 (AC or DC)
Max Wire Insulation	4.0mm ²	4.0mm ²	4.0mm ²
Operating Temperature	-20°C to 105°C	-20°C to 105°C	-20°C to 105°C
Anderson Part No	B02265G2	B02265G1	B02265G4



NEW
2016

PT-4480

PT-4482

PT-4484

APP
Anderson Power Products

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PT-4480	\$7.95	\$7.15	\$6.25
Red	PT-4482	\$7.95	\$7.15	\$6.25
Grey	PT-4484	\$7.95	\$7.15	\$6.25

Anderson Powerpole Series 4 Pin Data Connector

A genderless 4 pole signal Anderson connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson connector (PT-4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Up to 24 gauge for signal wire connectivity.
- Dimensions: 25(L) x 8(W) x 8(H)mm

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
Stackable 7A	PT-4403	\$22.95	\$20.65	\$18.35



APP
Anderson Power Products

Anderson Connectors - Plug & Socket

These little connectors can handle up to 600 volts continuous in AC or DC with maximum current of 10A. The green housing provides a visual indication of the ground terminal. Suitable for use in numerous applications from automotive to aviation. They will fit wire size from 14-16 AWG (2.1 to 1.3 mm²). Supplied as plug and socket pair.

- Plug: 27.5(H) x 8(L) x 8(W)mm / Socket: 24.5(H) x 8(L) x 8(W)mm

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
10A	PT-4416	\$6.95	\$6.25	\$5.55



APP
Anderson Power Products

4 Way 15A Anderson Connectors

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A - PT-4434

- Dimensions: 53(L) x 32(W) x 22(H)mm

4 WAY 15A WITH LATCH - PT-4436

- Dimensions: 53(L) x 32(W) x 22(H)mm

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Way	PT-4434	\$12.95	\$11.35	\$10.35
4 Way with Latch	PT-4436	\$12.95	\$11.35	\$10.35



APP
Anderson Power Products

Supplied individually with a pair of contacts, all 5 current ratings have an operating temperature of -20° to +120°C.

Anderson 50A High Current Connectors

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts

Specifications	PT-4425	PT-4427	PT-4420
Contact Rating	50A	50A	50A
Contact Wire Size	#8 AWG	#12-10 AWG	13.3mm ² (#6 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Diameter	11mm	11mm	11mm
Contact Retention Force	22kg	22kg	22kg
Operating Temperature	-20 to +105°C	-20 to 105°C	-20 to +120°C
Anderson Part No.			S850-6319



BEST
SELLER

APP
Anderson Power Products

Cable AWG	Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
8	50A	PT-4425	\$9.95	\$8.95	\$7.95
12-10	50A	PT-4427	\$9.95	\$8.95	\$7.95
6	50A	PT-4420	\$9.95	\$8.75	\$7.75

Moulded Pair

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts.

Specifications	PT-4422	PT-4424
Contact Rating	120A	175A
Contact Wire Size	3.6mm ² (#2 AWG)	53.5mm ² (#1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Diameter	14.6mm	19mm
Contact Retention Force	45.5kg (100lbs)	137kg (300lbs)
Operating Temperature	-20 to +125°C	-20 to +125°C
Anderson Part No.	B120-6800G1	S8175-6325G1

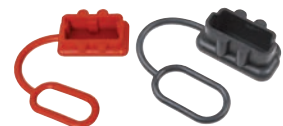


APP
Anderson Power Products

Cable AWG	Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
2	120A	PT-4422	\$19.95	\$17.70	\$15.70
1/0	175A	PT-4424	\$29.95	\$26.90	\$23.70

Dust/Water Resistant Rubber Covers

A water and dust resistant rubber cover to suit our Anderson style connectors.



Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4424	PM-4430	\$13.95	\$12.55	\$11.15
PT-4420	PM-4434	\$8.95	\$7.95	\$6.95
PT-4422	PM-4432	\$15.95	\$14.35	\$12.75

Handles for Anderson Style Connectors

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson Style Connectors		
50A Cat. PT-4420	Cat PM-4436	
120A Cat. PT-4422	Cat PM-4438	
175A Cat. PT-4424	Cat PM-4439	



Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4420	PM-4436	\$7.95	\$6.95	\$6.75
PT-4422	PM-4438	\$7.95	\$6.95	\$6.75
PT-4424	PM-4439	\$12.95	\$11.35	\$10.35

CABLE & CONNECTORS

HIGH CURRENT CONNECTORS & ADAPTORS

HIGH CURRENT CONNECTORS & ACCESSORIES (CONTINUED)

This new range enables you to chassis or panel mount Anderson plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

50A Chassis Mount Anderson Adaptors

Black 50 amp cover assembly with locking device and UV insulated protection to suit Anderson & Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe & reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4460	\$19.95	\$17.70	\$15.70

175A Chassis Mount Anderson Adaptors

Black 175 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4464	\$27.95	\$24.95	\$22.35

50 Amp Connector Cover Assembly Quickfit

Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4466	\$25.95	\$23.35	\$20.70

50A Red Chassis Mount Anderson Adaptors

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4470	\$19.95	\$17.70	\$15.70

Panel Mount Anderson Connector

Flush mount Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4472	\$24.95	\$22.35	\$19.70

Dustproof Rubber Boot for 50A Anderson Mounts

Rubber sleeve for water, dust and UV protection of Anderson style connectors.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4474	\$3.95	\$3.50	\$3.15

Waterproof Anderson Connectors

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm²) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm²
- Mountable

Dimensions when connected: 151(H) x 55(W) x 160(L)mm



50A LOAD RUBBER BOOT PT-4428

• Dimensions: 85(H) x 55(L) x 20(W)mm

50A SOURCE RUBBER BOOT PT-4429

• Dimensions: 85(H) x 55(L) x 20(W)mm

120A BOOT LOAD SIDE PT-4431

• Dimensions: 112(H) x 57(L) x 39(W)mm

120A BOOT SOURCE SIDE PT-4432

• Dimensions: 118(H) x 59(L) x 39(W)mm

175A BOOT LOAD SIDE PT-4438

• Dimensions: 135(H) x 77(L) x 42(W)mm

175A BOOT SOURCE SIDE PT-4439

• Dimensions: 135(H) x 68(L) x 42(W)mm

For heavy current cable suitable for these connectors, see page 202

	Cat.	Qty 1+	Qty 10+	Qty 50+
Boots to Suit 50A Male	PT-4428	\$15.95	\$14.35	\$12.75
Boots to Suit 50A Female	PT-4429	\$16.95	\$15.25	\$13.55
Boots to Suit 120A Male	PT-4431	\$24.95	\$22.45	\$19.95
Boots to Suit 120A Female	PT-4432	\$24.95	\$22.45	\$19.95
Boots to Suit 175A Male	PT-4438	\$24.95	\$22.50	\$19.95
Boots to Suit 175A Female	PT-4439	\$29.95	\$26.95	\$23.95

50A Anderson Plug to Insulated Battery Clamps

Tough insulated battery clamps connected to an Anderson plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.

- 8 AWG cable e/ 50A rated
- Insulated battery clamps
- Length: 300mm



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4449	\$24.95	\$22.45	\$19.95

High Current 60A Leads

A series of high current connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.



Five versions available:

50A PLUG EXTENSION LEAD, 8AWG, 5M PT-4440

50A PIGGYBACK LEAD, 8AWG, 300MM PT-4442

50A EYE TERMINAL LEAD, 8AWG, 300MM PT-4444

50A TO 15A CIGARETTE PLUG LEAD, 16AWG, 300MM PT-4446

ANDERSON 50A TO 15A CIGARETTE SOCKET LEAD, 16AWG, 300MM PT-4448

	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Extension Lead - 5m	PT-4440	\$79.95	\$71.95	\$63.95
Piggyback Lead	PT-4442	\$34.95	\$31.45	\$27.90
Eye Terminal Lead	PT-4444	\$14.95	\$13.45	\$11.95
Cigarette Plug Lead	PT-4446	\$16.95	\$14.95	\$13.35
Cigarette Socket Lead	PT-4448	\$16.95	\$14.95	\$13.35

DC POWER

Line Plugs

LINE - FEMALE Plastic Body



↑ 9.5mm Shaft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7(ID) x 2.5(OD)mm	PP-0503	\$1.95	\$1.75	\$1.55
1.0(ID) x 3.8(OD)mm	PP-0504	\$1.95	\$1.75	\$1.55
1.3(ID) x 3.5(OD)mm	PP-0506	\$1.95	\$1.75	\$1.55
1.6(ID) x 5.2(OD)mm	PP-0508	\$1.95	\$1.75	\$1.55
1.7(ID) x 4.0(OD)mm	PP-0507	\$1.95	\$1.75	\$1.55
1.7(ID) x 4.75(OD)mm	PP-0505	\$1.95	\$1.75	\$1.55
2.1(ID) x 5.5(OD)mm	PP-0510	\$1.95	\$1.75	\$1.55
↑ 10mm Shaft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	PP-0511	\$1.95	\$1.75	\$1.55
3.1(ID) x 6.3(OD)mm	PP-0513	\$1.95	\$1.75	\$1.55
↑ 14mm Shaft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	PP-0509	\$1.95	\$1.75	\$1.55
2.5(ID) x 5.5(OD)mm	PP-0512	\$1.95	\$1.75	\$1.55
↑ Right Angle 9.5mm Shaft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	PP-0514	\$2.65	\$2.30	\$2.07
↑ Right Angle - 14mm Shaft Length	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	PP-0515	\$2.65	\$2.30	\$2.07

METAL BODY LINE - FEMALE

9.5mm shaft.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	PP-0531	\$3.75	\$3.30	\$2.95
2.5(ID) x 5.5(OD)mm	PP-0532	\$3.75	\$3.30	\$2.95

2.1mm DC Connectors



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	PA-3711	\$4.95	\$4.45	\$4.00
Socket - Screw Terminals	PA-3713	\$4.95	\$4.45	\$4.00

Illuminated Polarity Sensing DC Connectors

Simplifies installation of your CCTV cameras and other security applications. They detect and indicate the polarity of your power connections with integrated LEDs. The LED lights up either blue for centre positive, red for centre negative or purple for AC voltage. They also shine brighter as voltage increases. 5-30 VAC/VDC range, 1 metre lead length.



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Inline Plug	WQ-7288	\$6.95	\$6.25	\$5.90
Inline Socket	WQ-7289	\$7.95	\$6.95	\$6.75

Waterproof 2.1mm DC Connectors with Pigtail Leads

This is the same connector set fitted to our waterproof flexible LED strip lights, which features a standard 2.1(ID) x 5.5(OD)mm DC connection with an IP67 rated coupling. The connectors are supplied pre-fitted to a 100mm pigtail lead, allowing you to make up your own lead set. Very handy on the campsite or in any number of applications.

- Cables are 20AWG
- 3A max at 12VDC



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Waterproof	PS-0785	\$7.95	\$7.15	\$6.25

Line Sockets

LINE - MALE

Plastic body



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	PS-0526	\$3.45	\$3.05	\$2.75
2.5mm	PS-0528	\$3.45	\$3.05	\$2.75
1.0mm - Suits Nokia	PS-0540	\$2.45	\$2.15	\$1.95

Line Sockets

LINE - MALE

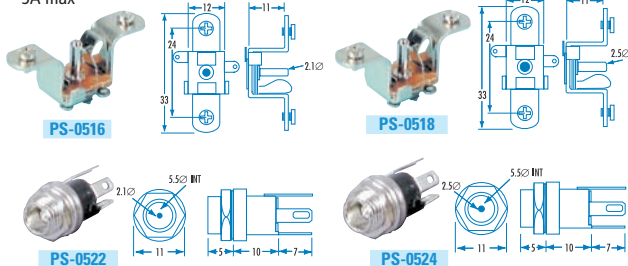
Metal Body



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	PS-0534	\$3.95	\$3.45	\$3.15
2.5mm	PS-0536	\$3.95	\$3.45	\$3.15

Chassis Mount

- 5A max



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm Chassis	PS-0516	\$1.95	\$1.75	\$1.55
2.5mm Chassis	PS-0518	\$1.95	\$1.75	\$1.55
2.1mm Bulkhead	PS-0522	\$2.95	\$2.60	\$2.30
2.5mm Bulkhead	PS-0524	\$2.95	\$2.60	\$2.30

Surface Mount

2.5MM PC MOUNT MALE

SPST contacts.



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm	PS-0520	\$1.95	\$1.75	\$1.55

0.7mm PCB Mount DC Socket with SPST Slide Switch

- Snap-in, PCB mounted 0.7mm DC power socket with SPST black On/Off slide switch.
- Electrical rating: 2A @ 15VDC
- Contact resistance: <30m ohm (max)
- Insulation resistance: 100M ohm (min)
- Electrical life: 30,000 cycles
- Dimensions: 15(L) x 10(W) x 14.6(D)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-0532	\$5.95	\$5.50	\$4.75

2.1mm PCB Mount DC Socket with SPST Rocker Switch

- Snap-in, PCB mounted DC power socket with rocker switch.
- Electrical rating: 5A @ 15VDC
- Contact resistance: <20m ohm (initial)
- Insulation resistance: 1000M ohm (500VDC between open contacts)
- Dielectric strength: >1500V 1 minute
- Electrical life: 6,000 cycles
- Overall dimensions: 24.5(L) x 9.0(W) x 14.1(D)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-0531	\$5.95	\$5.50	\$4.75

DC Power Adaptors



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm to 2.1mm Plug	PA-3707	\$2.95	\$2.60	\$2.30
2.1mm to 2.1mm Socket	PA-3701	\$3.45	\$3.05	\$2.75

DC Power Adaptors



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
1.3mm DC Plug to 2.5mm DC Socket	PA-3700	\$2.95	\$2.60	\$2.30
1.3mm DC Plug to 2.1mm DC Socket	PA-3702	\$2.95	\$2.60	\$2.30
2.1mm DC Plug to 2.5mm DC Socket	PA-3704	\$2.95	\$2.60	\$2.30
2.5mm DC Plug to 2.1mm DC Socket	PA-3706	\$2.95	\$2.60	\$2.30

CABLE & CONNECTORS POWER CONNECTORS

HARSH ENVIRONMENT

IP67 Rated Multiple Pole Harsh Environment Connectors

C16-1 series connectors offer 3 or 6 pole with pre-engaging earth contact. The mating parts screw together securely to provide environmental protection to IP67.



Specifications	3 Pole + PE*	6 Pole + PE*
Current rating	16A	10A
Voltage rating	380VAC 450VDC	380VAC 450VDC
Insulation resistance	>10Gohms	>10Gohms
Contact resistance	<5mohms	<5mohms
Max wire size	2.5mm ²	0.75mm ²
Environmental		
Temperature range	-40°C to +100°C	
Protection	IP67 to IEC60529/ DIN40050	
Housing	Polyamide 66 Nylon	
Strain relief	Screw clamp & Gland Nut	

Note:
*Means Pre-Engaging

6 POLE

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP-1000	\$19.95	\$17.70	\$15.70
PE Line Socket	PS-1001	\$19.95	\$17.70	\$15.70
PE Chassis Plug	PP-1002	\$13.95	\$12.35	\$10.95
PE Chassis Socket	PS-1003	\$13.95	\$12.35	\$10.95

3 POLE

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP-1006	\$17.95	\$15.95	\$14.35
PE Line Socket	PS-1007	\$17.95	\$15.95	\$14.35
PE Chassis Plug	PP-1008	\$12.95	\$11.35	\$10.35
PE Chassis Socket	PS-1009	\$12.95	\$11.35	\$10.35

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Dust Cap	PP-1004	\$9.95	\$8.75	\$7.75
Socket Dust Cap	PS-1005	\$9.95	\$8.75	\$7.75

LTW IP67 Harsh Environment Circular Connectors

Perfect for harsh environments such as marine, industrial, outdoor, automotive, etc.

- IP67 rated
- Gold plated
- Wide temperature: -40°C to 105°C
- 2pin versions rated to 5A
- Locking bayonet connection
- UL rated
- Solder pins
- 4 & 6 pin versions rated to 2A



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin Line Socket	PS-0541	\$14.95	\$13.45	\$11.95
2 Pin Panel Mount Plug	PP-0542	\$8.95	\$7.95	\$6.95
4 Pin Line Socket	PS-0543	\$19.95	\$17.95	\$15.95
4 Pin Panel Mount Plug	PP-0544	\$10.95	\$9.75	\$8.75
6 Pin Line Socket	PS-0545	\$15.95	\$14.35	\$12.75
6 Pin Panel Mount Plug	PP-0546	\$12.95	\$11.35	\$10.35
Dust Cap to suit PP-0544 & PP-0546	PS-0547	\$6.95	\$6.25	\$5.50

M8 CIRCULAR

Commonly used in process control instrumentation. All connectors are field installable.



Type	Cat.	Qty 1+
3 Way Plug	PP-4300	\$4.95
4 Way Plug	PP-4302	\$4.95
3 Way Socket	PS-4301	\$4.95
4 Way Socket	PS-4303	\$4.95

DEANS & BULLET STYLE

60A 2 Pole Gold Plated Connector Set

These are the industry standard in high performance connectors. Rated number one by RC Car Action, the world's leading RC car racing magazine. These connectors offer considerably less resistance than their competitors and are rated at 60 amps. Supplied as a pair.



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
60A Pair	PT-4450	\$3.95	\$3.45	\$3.15

EC3 Bullet Connectors

Polarity sensitive EC3 bullet style plug and socket. Commonly used to connect Li-Po batteries to RC motors. Solder type. 1 plug and socket per packet.



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT-4456	\$4.95	\$4.45	\$4.00

XT60 2 Way Bullet Connectors

Made from high temperature nylon with gold plated terminals. Ensures a solid high current connection that will handle 65 amps constant. Solder type. One plug and socket per packet.

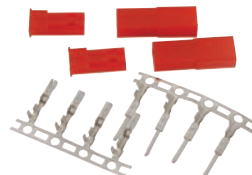


Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
65A	PT-4458	\$4.95	\$4.45	\$4.00

JST CRIMP

JST Crimp Connectors 2 Way

JST type crimp connectors for hobby use. Extensively used on batteries and other connectors in RC hobbies and models. Sold as a pair of 2 mating M/F connectors. Suitable for cable up to 1.3mm OD.



Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4452	\$4.95	\$4.45	\$3.90

LOOKING FOR CIGARETTE LIGHTER PLUGS & SOCKETS?

See page 477 for our full range



DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.



*ABN will be required - see our website or Store Manager for further details.

RJ45 MODULAR

Modular Plugs

50µ" Gold Contact

8/8 - RJ45

- Not ACMA Approved



↑ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1436	\$7.95	\$6.95	\$6.25

SCREENED 8 PIN FOR STRANDED CABLE

8P8C with full screening and round cable entry for connection to STP cable.



↑ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1437	\$14.95	\$13.35	\$11.70

RJ45 MODULAR PLUGS FOR STRANDED/SOLID CAT 6 CABLE PK10

RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable. Pack of 10



↑	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Standard - Pack of 10	PP-1447	\$13.95	\$12.35	\$10.95

8 PIN FOR FLAT STRANDED CABLE

8/8 - RJ45



8 PIN FOR ROUND SOLID CORE CABLE

8/8 RJ45 Suits Cat5e



↑	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Standard - Pack of 5	PP-1434	\$5.95	\$5.25	\$4.75
RJ45 Standard - Pack of 50	PP-1435	\$29.95	\$26.95	\$23.95
RJ45 Solid - Pack of 6	PP-1438	\$6.95	\$6.25	\$5.50
RJ45 Solid - Pack of 50	PP-1439	\$34.95	\$31.45	\$27.90

RJ45 BOOTS

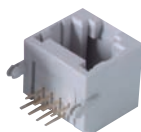
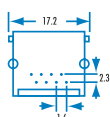
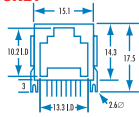
A packet of boots to suit RJ45 8/8 plugs.



↑ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PM-1441	\$4.95	\$4.45	\$4.15
50 Blue	PM-1442	\$15.95	\$14.35	\$12.75

8 PIN PCB MODULAR SOCKET

- Side entry
- Not ACMA approved



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
8/8 - RJ45	PS-1478	\$2.45	\$2.15	\$1.95

Waterproof RJ45 Cable Connector Housing

Allows you to join two Cat5e cables while providing a robust and waterproof connection. Use around the garage, factory or workshop to avoid dust or water ingress, or to survive the knocks and bumps around the office.

Includes 2-way Cat5 joiner, but will also accommodate any connector that fits within the internal dimensions of the housing.

- IP Rating: IP68
- Accepts cables: 4 - 7mm Dia.
- Dimensions: 120(L) x 35(Dia.)mm

*Not ACMA approved



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	PS-4064	\$19.95	\$17.95	\$15.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

RJ11/12 MODULAR

50µ" Gold Contact

4 PIN FOR STRANDED CABLE
4/4 - RJ11



6 PIN FOR STRANDED CABLE
6/6 - RJ12

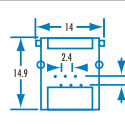
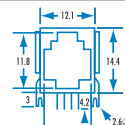


↑ Type	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ11 - Pack of 5	PP-1430	\$2.45	\$2.15	\$1.95
RJ11 - Pack of 50	PP-1431	\$19.95	\$17.95	\$15.95
RJ12 - Pack of 5	PP-1432	\$2.95	\$2.60	\$2.30
RJ12 - Pack of 50	PP-1433	\$23.95	\$21.35	\$18.95

PCB MODULAR SOCKETS

Side entry.

Not ACMA Approved



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4/4 - RJ11	PS-1470	\$1.65	\$1.45	\$1.30
6/6 - RJ12	PS-1474	\$1.95	\$1.75	\$1.55

TELEPHONE

PLUG 610 TYPE WALL SKT

For other telephone leads, adaptors - see our Computer & Multimedia section

- Blister pack.
- ACMA Approved

Note: Not available in New Zealand



↑	Cat.	Qty 1+	Qty 5+	Qty 20+
	PS-1410	\$6.95	\$6.25	\$5.50

4 Way Punchdown Block Connector

For use with standard 110 punch down tools. PCB mounting.



↑	Qty 1+
4 Way	PT-5000 \$0.25

WALLPLATES & KEYSTONE SOCKETS

Australian / NZ Flush Plates

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks shown below, they are also compatible with many other standard Australian mechanisms and jacks. The 2 piece design has a separate back plate and cover which is easily removed for painting.

- Fits standard Australian/NZ electrical switch plate installation hardware and screw centres.
- Perfect for easy flush installation on Gyprock walls.
- Supplied unloaded without jacks (see cat. YN-8036).
- Dimensions 116(W) x 75(H) x 13(D)mm.



YN-8015



YN-8016



YN-8017

↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN-8015	\$5.95	\$5.25	\$4.75
Double	YN-8016	\$5.95	\$5.25	\$4.75
Triple	YN-8017	\$5.95	\$5.25	\$4.75

Also see page 344 for wallplates to suit

Inserts for Keystone Wallplates



YN-8026



YN-8027



YN-8028



YN-8029

↑ Type	Cat.	Qty 1+	Qty 5+	Qty 10+
RJ11	YN-8026	\$4.95	\$4.45	\$3.90
RJ12	YN-8027	\$4.95	\$4.45	\$3.90
RJ45 Cat5e	YN-8028	\$4.95	\$4.45	\$3.90
RJ45 Cat6	YN-8029	\$4.95	\$4.45	\$3.90

CABLE & CONNECTORS

USB & COMMUNICATION CONNECTORS

WALLPLATES & KEYSTONE SOCKETS (CONTINUED)

RJ12 IDC Socket for Flush Plates

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.



↑	Cat.	Qty 1+	Qty 5+	Qty 20+
	YN-8035	\$9.95	\$8.75	\$7.75

Cat 5e IDC Jack to Suit Australian / NZ Style Flush Plates

Our premium Cat 5e IDC data jack is designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.



- Rear terminated with 110 or Krone impact tool.
- T568A & T568B colour coding for easy installation.
- ACMA Approved.
- Suit YN-8015/16/17 flush plates.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8036	\$9.95	\$8.75	\$7.75

Keystone Surface Box

Side entry surface mount boxes to accept our standard keystone 110 jacks.



- Snap-on cover for easy installation & access to wiring.
- Single and duplex versions available.
- Double sided tape for easy installation.
- Supplied unloaded without keystone jacks.
- Colour is white.



↑	W x H x D (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	Single 30 x 60 x 26	YN-8022	\$5.95	\$5.25	\$4.75
	Double 55 x 60 x 26	YN-8024	\$5.95	\$5.25	\$4.75

110 Keystone Jack

Suitable for use with our keystone wall plates and keystone surface boxes.



- For termination with ISBY impact tool and has combined 568A & T568B colour coding for easy installation.
- White in colour.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8030	\$9.95	\$8.75	\$7.75

USB

TYPE A & TYPE B PLUGS

With solder lugs.



PP-0790



PP-0792

↑	Type		Qty 1 +	Qty 10 +	Qty 50 +
	A	PP-0790	\$2.45	\$2.15	\$1.95
	B	PP-0792	\$2.45	\$2.15	\$1.95

TYPE A & TYPE B PC MOUNT SOCKETS

4P4C.



PS-0916



PS-0920



PS-0922

↑	Type		Qty 1 +	Qty 10 +	Qty 50 +
	A	PS-0916	\$2.95	\$2.60	\$2.30
	B	PS-0920	\$2.95	\$2.60	\$2.30
	Micro B	PS-0922	\$2.95	\$2.60	\$2.30

TYPE A IP67 RATED PLUG CABLES

Industrial USB connectors encased in robust housing with IP67 seal.

- Current rating 1.5A
- -40° to +105°C
- PBT UL94V-0 body



PP-0784



PS-0786

↑	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	A Male 1m Lead	PP-0784	\$13.95	\$12.55	\$11.15
	A Female 1m Lead	PS-0786	\$19.95	\$17.95	\$15.95

TYPE A PANEL MOUNT USB SOCKETS

Panel-mounting Type A USB socket.

- Suits panels up to 10mm thick.
- Mounting hole 20mm



↑	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	A Female	PS-0782	\$19.95	\$17.95	\$15.95

USB 3.0 Adaptors



PA-0930



PA-0931



PA-0933



↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	USB 3.0 Plug B to Socket A	PA-0930	\$7.95		
	USB 3.0 Micro B to Socket A	PA-0931	\$9.95	\$8.75	\$7.75
	USB 3.0 Plug Micro B to Socket B	PA-0933	\$7.95		

See pages 324 to 326 for new range of Type-C products

FME

FME Line

As used on some mobile phone car kits.

- Crimp
- Nickel plated
- Gold centre pin

See page 51 for crimp tools



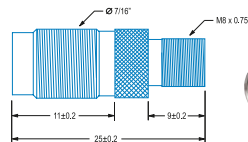
PP-0710



PS-0712

↑	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Plug	PP-0710	\$4.95	\$4.45	\$3.90
	Socket	PS-0712	\$3.95	\$3.45	\$3.15

FME - TNC Female Adaptor



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Female to Female	PA-0619	\$5.95	\$5.25	\$4.75

FME Plug to PL259 UHF Plug Adaptor



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	PA-0611	\$8.95	\$8.05	\$7.15

TNC

Line Plugs



PP-0664



PP-0665

↑	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Solder	PP-0664	\$3.95	\$3.45	\$3.15
	Crimp - RG58U	PP-0665	\$3.95	\$3.45	\$3.15
	Crimp - RG59U	PP-0667	\$3.95	\$3.45	\$3.15

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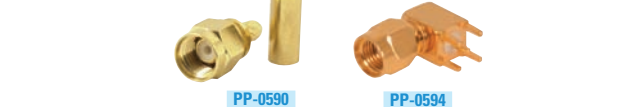
SMA

SMA Connectors



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - RG58 - Crimp	PP-0632	\$5.65	\$4.95	\$4.45
Right Angle Plug - RG174 - Crimp	PP-0631	\$5.95	\$5.25	\$4.75
Line Socket - RG174 - Solder	PS-0634	\$4.95	\$4.45	\$3.90

SMA Reverse



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Reverse Line Plug - RG174U	PP-0590	\$5.95	\$5.25	\$4.75
Reverse Line Socket	PS-0592	\$5.95	\$5.25	\$4.75

SMA Adaptors



↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
SMA Socket to Reverse SMA Plug	PA-0627	\$6.95	\$6.25	\$5.50
SMA Socket to Reverse SMA Socket	PA-0629	\$6.95	\$6.25	\$5.50
SMA Plug to Reverse SMA Plug	PA-0628	\$6.95	\$6.25	\$5.50
SMA Plug to PL259 Socket	PA-0612	\$7.95	\$7.10	\$6.25



↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
FME Socket to SMA Socket	PA-0620	\$4.95	\$4.45	\$3.90
SMA Socket to FME Plug	PA-0621	\$4.95	\$4.45	\$3.90
SMA Plug to SMA Plug	PA-0622	\$4.95	\$4.45	\$3.90
SMA Socket to BNC Socket	PA-0624	\$4.95	\$4.45	\$3.90
SMA Plug to BNC Socket	PA-0615	\$5.95	\$5.25	\$4.75



↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
N Plug to SMA Socket	PA-0616	\$6.95	\$6.25	\$5.50
N Socket to SMA Socket	PA-0617	\$6.95	\$6.25	\$5.50
SMA Coupler	PA-0635	\$6.95	\$6.25	\$5.50
SMA Socket to PL259 UHF Plug NEW	PA-0613	\$8.95	\$8.05	\$7.15

SMA Factory Precrimped Coax Leads

- SMA plug to plug - Gold plated connectors
- RG316 high quality coax cable
- Bandwidth up to 2.9GHz

↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	WC-7800	\$19.95	\$17.95	\$15.95
3m	WC-7802	\$29.95	\$26.95	\$23.70
5m	WC-7804	\$44.95	\$40.45	\$35.95

N TYPE



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - suits RG58U	PP-0672	\$5.95	\$5.25	\$4.75
Line Socket - suits RG58U	PS-0673	\$6.95	\$6.25	\$5.50
Panel Socket	PS-0674	\$6.95	\$6.25	\$5.50

UHF

UHF - Mini Male Line Plugs



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp - RG58U	PP-0695	\$4.95	\$4.45	\$3.90
Crimp - RG59	PP-0694	\$4.95	\$4.45	\$3.90

UHF Line Plugs – PL259 Type



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder - RG-58U - with Reducer	PP-0680	\$2.95	\$2.60	\$2.30
Solder - RG-8U	PP-0682	\$2.95	\$2.60	\$2.30

UHF Joiner & Socket



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS-0690	\$3.95	\$3.45	\$3.15
SO239 Chassis Socket	PS-0686	\$2.95	\$2.60	\$2.30

COAXIAL - PAL

TECH TALK!

These are the standard aerial connectors for TVs and video recorders. They are often called "Belling-Lee" or "PAL" connectors.

75 Ohm Line Plugs



↑ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PP-0600	\$1.95	\$1.75	\$1.55
Nickel Plated	PP-0602	\$2.45	\$2.15	\$1.95
Gold Plated	PP-0604	\$7.95	\$6.95	\$6.25
R/A Solderless	PP-0606	\$2.95	\$2.60	\$2.30
Crimp - RG59	PP-0607	\$2.95	\$2.60	\$2.30
Crimp - RG6	PP-0608	\$2.95	\$2.60	\$2.30
Joiner	PS-0622	\$1.75	\$1.55	\$1.40

CABLE & CONNECTORS ANTENNA & VIDEO CONNECTORS

COAXIAL - PAL (CONTINUED)

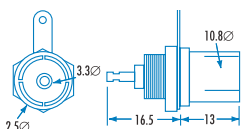
75 Ohm Line Sockets



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PS-0610	\$1.75	\$1.55	\$1.40
Nickel Plated	PS-0614	\$2.45	\$2.15	\$1.95
Right Angle Solderless	PS-0612	\$3.45	\$3.05	\$2.75
Crimp - RG59	PS-0611	\$2.75	\$2.45	\$2.15
Crimp - RG6	PS-0613	\$2.75	\$2.45	\$2.15
Gold	PS-0605	\$7.95	\$6.95	\$6.25
Joiner	PS-0620	\$1.75	\$1.55	\$1.40

75 Ohm Chassis Mount Socket

- Nickel plated
- High quality product



Hole cutout 9.5mm.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-0628	\$2.95	\$2.60	\$2.30

75 Ohm Cable Joiner

Hardwire connection of 50 to 75Ω coax cable.



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-0618	\$2.95	\$2.60	\$2.30

COAXIAL - ADAPTORS



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
PAL Plug to RCA Socket	PA-3675	\$3.95	\$3.45	\$3.15
PAL Socket to PAL Socket	PS-0620	\$1.75	\$1.55	\$1.40
PAL Plug to PAL Plug	PS-0622	\$1.75	\$1.55	\$1.40
PAL Plug to PAL Socket - Right Angle	PA-3679	\$4.95	\$4.45	\$3.90
F Socket to PAL Socket	PA-3656	\$3.95	\$3.45	\$3.15
PAL Plug to F-81	PA-3653	\$3.95	\$3.45	\$3.15
PAL Plug to F-81 Socket - Right Angle	PA-3673	\$4.95	\$4.45	\$3.90
F-59 Plug to PAL Socket	PA-3672	\$1.95	\$1.75	\$1.55
F-59 Plug to PAL Plug	PA-3671	\$2.95	\$2.60	\$2.30
F-59 Plug to F-81 Socket - Right Angle	PA-3674	\$3.95	\$3.45	\$3.15
F-59 Plug to Plug	PA-0633	\$1.65	\$1.45	\$1.30

COAXIAL - F TYPE

TECH TALK!

Used mainly for RF signals such as those for satellite dishes, cable boxes or TV aerials. The highest quality connections between your cable/satellite wallplate output and the cable/satellite box. Standard emerged from the US cable TV industry. Now the Aust./NZ standard.

F Type Plugs

F connectors recommended for all new TV installations

- Suits RG59 or RG6 cable

See pages 50 for Crimping Tools & page 198 for Coaxial Cable



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59	PP-0640	\$0.95	\$0.85	\$0.75
Suits RG6	PP-0641	\$0.95	\$0.85	\$0.75
F-59 Crimp Plug for RG6	PP-0643	\$1.25	\$1.10	\$0.97
F-59 Crimp Plug for RG59U	PP-0644	\$1.25	\$1.10	\$0.97
F-59 Crimp Plug for RG59	PP-0702	\$1.95	\$1.75	\$1.55
F-59 Crimp Plug for RG6 Cable	PP-0704	\$1.95	\$1.75	\$1.55
F-59 Waterproof Compression Plug for RG6 Cable	PP-0708	\$1.95	\$1.75	\$1.55

F Type Twist On Plugs

These are ideal crimpless but strong F-plugs for low volume applications. Highly recommended.

F-59 TYPE SCREW-ON PLUGS

Simply strip coax back about 12mm, fold braid/foil back over the plastic outer sheath. Trim about 8mm of foam insulation from centre conductor. Then simply screw the knurled connector on the cable until you see sufficient centre conductor out of the front of the connector. The foam insulation will centrally locate this conductor.

- Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59 Cable	PP-0637	\$1.45	\$1.30	\$1.15
Suits RG6 Cable	PP-0638	\$1.45	\$1.30	\$1.15

CRIMPLESS F-TYPE PLUG TO RG6

No crimp or soldering required.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0671	\$2.95	\$2.60	\$2.30

F-59 TOOL-LESS COMPRESSION CRIMP CONNECTOR

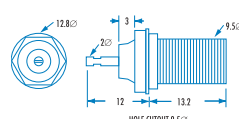
No crimping tool required. Just strip back the outer and inner sheath, fold the braid back and push the connector on. The crimp is reliable with high mechanical strength and will never come off. Suitable for RG6 quad shield coax.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0677	\$2.50	\$2.21	\$1.95

F Type Sockets

F-61 CHASSIS SOCKET

- Hole cutout 9.5mm.
- Nickel plated



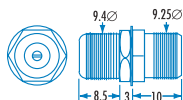
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
F-61 Chassis	PS-0645	\$1.75	\$1.55	\$1.40

COAXIAL - F TYPE (CONTINUED)

F Type Adaptors

F-81 INLINE JOINER

- Nickel plated



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	PS-0646	\$1.95	\$1.75	\$1.55

F-81 Inline Joiner - Foxtel Approved

- Socket to Socket
- Foxtel Approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	PP-0648	\$4.95	\$4.45	\$3.90

F-59 TYPE 75 OHM DUMMY LOAD

Simply screw on to unused ports of splitters, etc to maintain good VSWR.

- Nickel plated



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Dummy Load	PP-0639	\$1.50	\$1.35	\$1.20

F-59 LINE PLUG - SOLDERLESS TYPE

Screw assembly - no soldering is required



	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	PP-0709	\$2.95	\$2.60	\$2.30

BNC

TECH TALK!

BNC plugs lock on to the socket and are used for some digital audio connections as well as for video connections, particularly CCTV.

Male Line Plugs



	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	Solder Type	PP-0650	\$3.25	\$2.90	\$2.60
	Crimp RG59	PP-0688	\$3.25	\$2.90	\$2.60
	Crimp RG6	PP-0689	\$4.95	\$4.45	\$3.90
	Solderless Type	PP-0652	\$4.95	\$4.45	\$3.90

Crimless BNC Plug to RG6

No crimper or soldering required.

- Crimless BNC Plug to RG6



	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	PP-0675	\$3.50	\$3.15	\$2.75

Male Crimp Plugs



	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	0.7mm Centre Pin - suits RG59	PP-0647	\$2.95	\$2.60	\$2.30
	0.9mm Centre Pin - suits Belden	PP-0651	\$2.95	\$2.60	\$2.30
	Crimp Type - RG58	PP-0649	\$2.95	\$2.60	\$2.30
	Crimp Type - RG6	PP-0657	\$3.95	\$3.45	\$3.15
	Compression Crimp	PP-0669	\$3.95	\$3.45	\$3.15

Crimp Plug Boot

Suits - PP-0695 Mini UHF plug, PS-0660 BNC female line crimp, PP-0649 BNC RG58 Crimp plug & PP-0651 BNC RG59 Crimp plug.



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	PM-0648	\$1.95	\$1.75	\$1.55

Male Twist On Plugs



	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	Twist on for RG59 0.9mm centre	PP-0678	\$3.95	\$3.45	\$3.15
	Twist on for RG6	PP-0679	\$4.95	\$4.45	\$3.90
	Terminator plug with 50Ω resistor	PP-0655	\$4.95	\$4.45	\$3.90

Line Sockets



	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	Line Socket - RG58	PS-0660	\$4.95	\$4.45	\$3.90
	Line Socket - RG6	PS-0659	\$4.95	\$4.45	\$3.90
	Joiner	PS-0663	\$3.95	\$3.45	\$3.15

Chassis Sockets



	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	Square Mount	PS-0656	\$2.95	\$2.60	\$2.30
	Single Hole Mount	PS-0658	\$3.95	\$3.45	\$3.15
	Double Female Mount	PS-0662	\$4.45	\$3.95	\$3.45

BNC PCB

- PCB connect with optional panel screw fixing



	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	PS-0661	\$7.95	\$6.95	\$6.25

BNC with Terminals



⬆	Cat.	Qty 1+	Qty 4+	Qty 10+	
	Screw Terminal	PA-3715	\$4.95	\$4.45	\$4.00
	Spring Terminal	PA-3716	\$4.95	\$4.45	\$4.00

BNC Adaptors



	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	BNC Plug to F59 Plug Adaptor	PA-3661	\$4.95	\$4.45	\$3.90
	BNC Adaptor 1 Male to 2 Female - T	PA-3662	\$5.95	\$5.25	\$4.75
	BNC Adaptor 1 Male to 2 Female - Y	PA-3664	\$9.95	\$8.75	\$7.75
	BNC T Adaptor	PA-3660	\$4.95	\$4.45	\$3.90
	BNC Male to Double Binding Sockets/Banana Sockets	PA-3666	\$8.95	\$7.95	\$6.95
	BNC Plug to BNC Plug Adaptor	PA-3665	\$4.95	\$4.45	\$3.90
	BNC Plug to F-81 Socket	PA-3651	\$1.95	\$1.75	\$1.55
	BNC Plug to RCA Socket	PA-3654	\$3.95	\$3.45	\$3.15
	PL259 Plug to BNC Socket	PA-3652	\$6.95	\$6.25	\$5.50
	PL259 Socket to BNC Plug	PA-0681	\$3.95	\$3.45	\$3.15
	BNC Plug to BNC Socket R/A	PA-3663	\$4.95	\$4.45	\$3.90

CABLE & CONNECTORS

TERMINAL BLOCKS & CABLE CONNECTORS

TERMINAL BLOCKS & CONNECTORS

"Jow" Cable Clamp Connectors

Designed to reduce electrical installation time and to increase efficiency. These easy-to-use connectors eliminates the need to strip, twist and crimp connect wires. Simply insert your wire into the clamp opening and snap it shut using your hands or small pliers depending on wire gauge to make the connection. The precision-sharpened connector blades borrows the IDC configuration that cut through the wires create a connection. Available in two shapes - "I" type and "T" type. "I" type are used for end to end connections whereas the "T" type for parallel connections. Ideal for applications such as: low voltage LEDs, residential, automotive, communication and broadcasting.

- Avoid stripping, twisting or crimping cables together eliminates need to tape cables
- Creates an IP33 connection
- Handles up to 600VAC
- Electrically Safety approved
- RoHS compliant



Specifications	PT-4640	PT-4641
Suitable for cable between	27-20 (AWG), Cross section (mm²): 0.2-0.5	19-17 (AWG), Cross section (mm²): 0.75
Max current (240VAC)	3A	10A
Connection loss (Ohm)	0.0018	0.0010
Dimensions/Weight	25(L) x 5.5(W) x 5.5(H)mm/0.8g	30(L) x 6(W) x 6(H)mm/1g

Specifications	PT-4643	PT-4650
Suitable for cable between	13-12 (AWG), Cross section (mm²): 2.5	27-20 (AWG), Cross section (mm²): 0.2-0.5
Max current (240VAC)	20A	3A
Connection loss (Ohm)	0.0001	0.0018
Dimensions/Weight	36(L) x 7.7(W) x 7.7(H)mm/2.5g	25(L) x 5.5(W) x 5.5(H)mm/1g

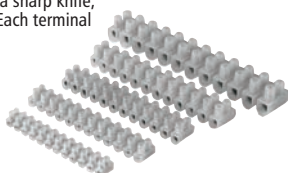
Specifications	PT-4651	PT-4653
Suitable for cable between	19-17 (AWG), Cross section (mm²): 0.75	13-12 (AWG), Cross section (mm²): 2.5
Max current (240VAC)	10A	20A
Connection loss (Ohm)	0.0010	0.0001
Dimensions/Weight	30(L) x 6(W) x 6(H)mm/1.6g	37(L) x 7.7(W) x 7.7(H)mm/3.3g

↑				Cat.	Qty 1+	Qty 4+	Qty 10+
In-line	I Type	3A	Pack of 6	PT-4640	\$5.95	\$5.35	\$4.75
In-line	I Type	10A	Pack of 4	PT-4641	\$4.95	\$4.45	\$4.00
In-line	I Type	20A	Pack of 2	PT-4643	\$5.95	\$5.50	\$4.75
Parallel	T Type	3A	Pack of 6	PT-4650	\$6.95	\$6.25	\$5.55
Parallel	T Type	10A	Pack of 4	PT-4651	\$5.95	\$5.50	\$4.75
Parallel	T Type	20A	Pack of 2	PT-4653	\$6.95	\$6.25	\$5.50

Terminal Strips

Still 12 way and capable of being divided with a sharp knife, however, the screw retention is much sturdier. Each terminal block has a mounting hole on a fixed pitch.

Specifications	All
Material	Polyamide 66 (nylon)
	UL94V-2 flame retardant
Temperature	-35°C to 110°C
Voltage	250-450V
Colour	Natural

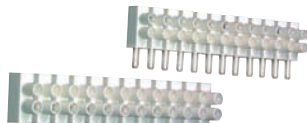


Current	Cable Dia	Length	Pitch	Cat.	Qty 1+	Qty 4+	Qty 10+
5A	3.3mm	114.5mm	10mm	HM-3194	\$1.75	\$1.55	\$1.40
10A	4.2mm	128.8mm	11mm	HM-3196	\$1.95	\$1.75	\$1.55
15A	4.5mm	136.8mm	12mm	HM-3200	\$2.65	\$2.30	\$2.07
30A	5.6mm	164.5mm	15mm	HM-3198	\$2.85	\$2.53	\$2.23
60A	6.6mm	193mm	16.3mm	HM-3204	\$4.95	\$4.45	\$3.90

Plug/Socket Terminal Strip

Semi permanent connection up to 12 poles.

- Reliable screw down termination.
- 10A per pole.
- Supplied as a matching pair



↑		Qty 1+	Qty 4+	Qty 10+
	HM-3202	\$12.95	\$11.35	\$10.35

Ceramic Terminal Blocks

Glazed porcelain terminal blocks are ideal for high temperature situations, such as in lighting. Ask us for competitive bulk prices.

Images not to scale



29(W)x22(D)x17(H)mm 30(L)x18(D)x16(H)mm 52(L)x29(D)x22(H)mm

↑	Current Voltage			Qty 1 +	Qty 4 +	Qty 10 +
2 Wire Medium	10A	250VAC	HM-3182	\$0.85	\$0.75	\$0.65
3 Wire Small	5A	380VAC	HM-3183	\$1.10	\$1.00	\$0.90
3 Wire Large	30A	250VAC	HM-3185	\$1.50	\$1.35	\$1.20

Plug-In Spring Terminal Blocks

A range of easy-to-use, push-wire terminal blocks that make joining wires a breeze. No tools necessary! Simply insert the stranded or solid wire and it will bite down to hold the wire in place. Rated for high voltage applications but would also suit lower voltage applications like 12V lighting.

- 240V, 24A rated



2 WAY - YELLOW Cat. HM-3193

- Suits 0.75 - 2.5mm², 18 - 13AWG.
- Dimensions: 19.5(L) x 13.5(H) x 10(W)mm

3 WAY - RED Cat. HM-3190

- Suits 1.5 - 6.0mm² solid core cable
- Dimensions: 26(W) x 20(L) x 14(H)mm

4 WAY Cat. HM-3195

- Suits 0.75 - 2.5mm², 18 - 13AWG
- Dimensions: 19(L) x 12(W) x 14(D)mm

Note: Colour of HM-3195 may vary to one shown.

↑	Suits	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	0.75 - 2.5mm²	2	HM-3193	\$0.95	\$0.85	\$0.75
4 Way	0.75 - 2.5mm²	2	HM-3195	\$1.20	\$1.05	\$0.95
3 Way	1.5 - 6.0mm²	2	HM-3190	\$2.45	\$2.21	\$1.95

2 & 3 Way Cage Clamp® Connectors

These compact connectors use Cage Clamp® fittings that can connect up to 3 stripped, fine-stranded conductors with cross sections from 0.08 to 2.5mm², and solid or ferruled wires up to 4.0mm².

- Fine-stranded: 0.08 - 2.5mm², 28 - 14AWG
- Solid/ferruled: 0.08 - 4.0mm², 28 - 12AWG
- 240V, 32A rated



2 WAY Cat. HM-3197

- Dimensions: 21(L) x 14(H) x 12(W)mm

3 WAY Cat. HM-3199

- Dimensions: 21(L) x 17(W) x 14(H)mm

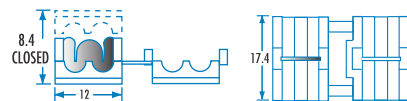
↑	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	2	HM-3197	\$2.15	\$1.90	\$1.70
3 Way	2	HM-3199	\$2.45	\$2.21	\$1.95

QUICK SPLICE

Contact Connectors

Simply wrap around the existing wire and new wire and squeeze. Connector cuts through insulation and makes contact without damaging the conductor.

- Fully insulated once on.



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	4	HP-1206	\$1.95	\$1.75	\$1.55

Quick Splice Connectors

Simply insert your wires and squeeze it closed to connect and crimp. Quick, easy, and secure. Nylon insulation rated to 105 °C



ID	Type	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
A	22-18AWG	6	PT-4537	\$2.75	\$2.45	\$2.15
B	16-14AWG	6	PT-4637	\$2.75	\$2.45	\$2.15
C	12-10AWG	6	PT-4737	\$2.75	\$2.45	\$2.15

CABLE CONNECTORS

Crimp Wire Connectors

The easy way to connect 2 or 3 wires together. Simply insert into the connector, & squeeze with a pair of pliers. They are filled with sealant to provide moisture resistance. Accepts cable up to 1.08mm OD.



↑	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
(6 x 2 wire) & (2 x 3 wire)	8	HP-1214	\$4.95	\$4.45	\$3.90
2 Wire	50	HP-1270	\$10.95	\$9.75	\$8.75
3 Wire	50	HP-1272	\$14.95	\$13.35	\$11.70

HEADERS/ TERMINAL BLOCKS & CONNECTORS

5.08mm High Quality Pluggable Terminal Blocks/Headers

Available in both horizontal-plug and vertical-plug versions, these quality headers simply solder to a PC board and are for the Pluggable Terminal Blocks (see below).

- Made from Polyamide66 plastic (UL94V-0) • 1.0mm tin-plated brass solder pins
- Excellent current and insulation characteristics.



Specifications	All
Current rating	12A, 300VAC
Insulation withstands volt	2000VAC min
Insulation resistance	>5000MΩ 500VDC
PCB hole diameter	1.5mm
Pitch	5.08mm (0.200 inch)

The plug version to suit the above headers - these terminal blocks are easily plugged in, and feature nickel-plated brass cage clamps, tin-plated phosphor-bronze contacts, M3 nickel-plated steel screws.

HORIZONTAL PC MOUNT (PIC A)

↑ Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3102	\$0.95	\$0.85	\$0.75
3	HM-3103	\$1.65	\$1.45	\$1.30
4	HM-3104	\$1.95	\$1.75	\$1.55
6	HM-3106	\$2.95	\$2.60	\$2.30
8	HM-3108	\$3.95	\$3.45	\$3.15

VERTICAL PC MOUNT PLUGGABLE HEADERS (PIC B)

↑ Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3112	\$0.95	\$0.85	\$0.75
3	HM-3113	\$1.65	\$1.45	\$1.30
4	HM-3114	\$1.95	\$1.75	\$1.55
6	HM-3116	\$2.95	\$2.60	\$2.30
8	HM-3118	\$3.95	\$3.45	\$3.15

SCREW TERMINAL SOCKETS (PIC C)

↑ Poles	Width(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
2	11.40	HM-3122	\$2.35	\$1.95	\$1.85
3	16.40	HM-3123	\$3.60	\$3.15	\$2.75
4	21.40	HM-3124	\$4.95	\$4.45	\$3.90
6	31.40	HM-3126	\$6.95	\$6.25	\$5.50
8	41.40	HM-3128	\$9.95	\$8.95	\$7.95

PCB Mount Screw Terminals - 5mm



Join together to make a 6 way

Ideal for those situations where wires leave a PCB. Just solder the terminal strip to the PCB and connect wires. 2 way (HM-3172) and 3 way (HM-3173) are interlocking, so you can make up whatever size you require using these - see 6 way pictured.

↑		Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3172	\$1.20	\$1.05	\$0.95
3 Way	HM-3173	\$1.55	\$1.35	\$1.20

Weidmuller PCB Mount Screw Terminals - 5.08mm

These are 5.08mm spacing, come in 2 and 3 way, are interlocking and orange in colour.

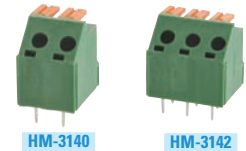


↑		Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3130	\$1.20	\$1.05	\$0.95
3 Way	HM-3132	\$1.55	\$1.35	\$1.20

PCB Spring Terminal Blocks

These PCB terminal blocks retain the wire securely by a spring type clamp. The wire is held very securely but can be quickly released by depressing a release lever. The wire can be inserted/released indefinitely with virtually no deterioration of the contact/spring assembly. Both 2 & 3 pole are available and the housing of each is dove tailed to stack together and make any number of poles.

- Pitch: 5.0mm
- Housing material: PA66
- Contact/spring assembly: Stainless Steel
- Will accept wires from 22-14AWG
- Current rating 12.0A @ 300VAC
- Temperature rating: -40 to +105°C
- Power rating: 5kV rated / 250VAC Cat III
- Dimensions: 2-Way 10(L) x 13(W) x 15(H)mm, 3-Way 15(L) x 13(W) x 15(H)mm

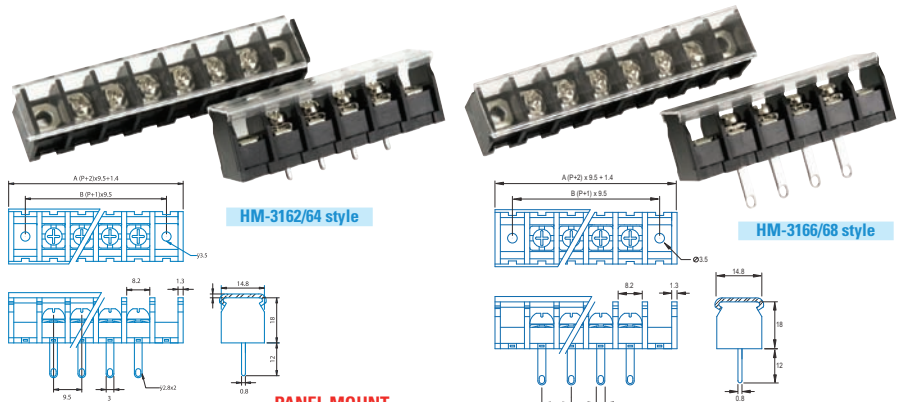


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3140	\$2.20	\$1.95	\$1.75
3 Way	HM-3142	\$2.90	\$2.60	\$2.30

TERMINAL BARRIERS

Terminal Barriers - Transparent Covers

Specifications	All
Pitch	9.5mm
Barrier Material	Thermoplastic (UL-94V-0), Black
Terminals	Tin Plated Brass (Standard)
Screws	Nickel Plated Steel
Wire Range AWG	12-22 STR
Rating	25 Amp, 300VAC
Cover Material	PC
Insulation withstands voltage	AC 2000V/Min
Insulation Resistance	500Mohm or more at 500V



PC MOUNT

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	HM-3162	\$3.95	\$3.45	\$3.15
6 Way	HM-3164	\$5.50	\$4.90	\$4.30

PANEL MOUNT

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	HM-3166	\$3.95	\$3.45	\$3.15
6 Way	HM-3168	\$5.50	\$4.90	\$4.30

Surface Mount Screw Terminal Strips

These units feature the ability to terminate 2 or 3 sets of wires securely with the option of changing or adding connections. In classic barrier strip fashion there is a comprehensive fence between each terminal. Each sturdy block has 2 x 4mm mounting holes at each end and a insulating body with high impact plastic.

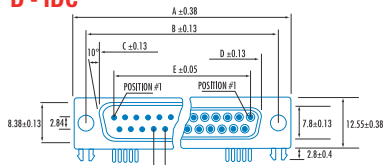
Two models available:

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3167	\$2.95	\$2.60	\$2.30
3 Way	HM-3169	\$3.45	\$3.05	\$2.75



D CONNECTORS

D - IDC



Size	A	B	C	D	E	F
9 Pin	30.81	24.99	16.92	16.24	11.09	2.74
25 Pin	53.04	47.04	38.96	38.38	33.24	2.77

Sizes shown in mm

Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
IDC Plug	9 Pin	PP-0802	\$3.95	\$3.45	\$3.15
IDC Plug	15 Pin	PP-0821	\$4.45	\$3.95	\$3.45
IDC Plug	25 Pin	PP-0842	\$4.65	\$4.15	\$3.60
IDC Socket	9 Pin	PS-0805	\$3.95	\$3.45	\$3.15
IDC Socket	15 Pin	PS-0825	\$4.45	\$3.95	\$3.45
IDC Socket	25 Pin	PS-0846	\$4.65	\$4.15	\$3.60

D Male / Female

MALE SOLDER

All 'D' connectors have quality gold plated contacts & nickel plated shells.



Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP-0800	\$1.45	\$1.30	\$1.15
Plug Solder	15 Pin	PP-0820	\$1.95	\$1.75	\$1.55
Plug Solder	15HD Pin	PP-0831	\$3.65	\$3.15	\$2.90
Plug Solder	25 Pin	PP-0840	\$1.95	\$1.75	\$1.55
Plug Solder	37 Pin	PP-0860	\$4.95	\$4.45	\$3.90
Socket Solder	9 Pin	PS-0804	\$1.95	\$1.75	\$1.55
Socket Solder	15 Pin	PS-0824	\$1.95	\$1.75	\$1.55
Socket Solder	15HD Pin	PS-0832	\$3.65	\$3.15	\$2.90
Socket Solder	25 Pin	PS-0844	\$1.95	\$1.75	\$1.55
Socket Solder	37 Pin	PS-0864	\$4.95	\$4.45	\$3.90
R/A Plug Solder	9 Pin	PP-0803	\$2.95	\$2.60	\$2.30
R/A Plug Solder	25 Pin	PP-0843	\$3.65	\$3.15	\$2.90
R/A Socket Solder	9 Pin	PS-0806	\$2.95	\$2.60	\$2.30
R/A Socket Solder	25 Pin	PS-0845	\$3.65	\$3.15	\$2.90

D-SUB IP67 HARSH ENVIRONMENT

Robust D-Sub connectors housed in industrial body and IP67 waterproof housing.

- Current rating 5A,
- -40° to +105°C
- Gold flash plating on contacts

LTW



Type	Pin	at.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP-1216	\$17.95	\$15.95	\$14.35
Plug Solder	25 Pin	PP-1226	\$19.95	\$17.95	\$15.95
Socket Solder	9 Pin	PS-1210	\$17.95	\$15.95	\$14.35
Socket Solder	25 Pin	PS-1220	\$19.95	\$17.95	\$15.95

MICROCHIP MILESTONES

4000 SERIES CMOS DEVELOPMENT

The release of the 74-series TTL created an explosion in high performance equipment in the late '60's right through the '70's. It quickly became apparent, however that using 74 series TTL on a large scale created enormous demands on the attendant power supply.

It was not uncommon to have to find 100Amps at 5V, the standard TTL rail voltage. This not only required designers to create heavy copper tracks on PCB's, the switching transients of the logic generated a lot of commutation noise on the power supply bus.

Design to decouple the switching noise was taking an inordinate amount of time in the design process.

Along came RCA, which had an active semiconductor division in those days. They developed a range of logic chips from 1968 headed by a scientist called Albert Medwin.

They called this the 4000 series.

D Backshells

PLASTIC

Screws supplied.



ABS FLAMEPROOF D BACKSHELLS

Top quality grey back shells with two cable entries.

- Rear or side entry.
- Simply push out the tab required.
- Supplied with 2 long finger screws, cable clamp screws and hood fixing screws.
- A quality range of backshells.



METAL

Quality heavy duty metal backshells.

- Ideal where RF screening is required.
- Rear entry.



DB25/DB25 HOOD

Ideal for making your own special adaptors.

- Accepts 2 x D25 connectors.
- Either plugs or sockets.



Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic D Backshells	9 Pin	PM-0808	\$2.25	\$1.95	\$1.80
Plastic D Backshells	15 Pin	PM-0828	\$2.45	\$2.15	\$1.95
Plastic D Backshells	25 Pin	PM-0848	\$2.95	\$2.60	\$2.30
Plastic D Backshells	37 Pin	PM-0868	\$3.95	\$3.45	\$3.15
Metal D Backshells	9 Pin	PM-0812	\$3.95	\$3.45	\$3.15
Metal D Backshells	15 Pin	PM-0833	\$4.95	\$4.45	\$3.90
Metal D Backshells	25 Pin	PM-0847	\$6.95	\$6.25	\$5.50
ABS D Backshells	9 Pin	PM-0810	\$2.95	\$2.60	\$2.30
ABS D Backshells	15 Pin	PM-0830	\$3.25	\$2.90	\$2.60
ABS D Backshells	25 Pin	PM-0850	\$3.95	\$3.45	\$3.15

D Hardware

SUB HEX NUT EXTENDERS

Pkt of 8 pairs (16 pcs) 6mm hex nut extenders for D connectors.

- Double female screw adaptor.
- Pack of 8 pairs



THUMB SCREWS FOR D BACKSHELLS

Pkt of 4 pairs (8 pcs) of universal thumb screws for D backshells.

- Total length 44mm.
- Pack of 4 pairs



LOCKING NUTS FOR D CONNECTORS

Packets of 5 pairs (10 pcs.) of D locking nuts.

- Includes screws, nuts and washers.
- 6mm length.
- Pack of 5 pairs



JACK SCREW TO SUIT D-SUB

- 13mm length



Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	8	PM-0857	\$4.95	\$4.45	\$3.90
Thumb Screws	4	PM-0859	\$4.95	\$4.45	\$3.90
Jack Screw	-	PM-0854	\$0.75	\$0.65	\$0.60
Jack Screw Locking	5	PM-0852	\$4.95	\$4.45	\$3.90

Locking Nut Set for D-Connectors

Suits D connectors.

- Length 13mm.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	PM-0855	\$2.95	\$2.60	\$2.30

HEADER CONNECTORS

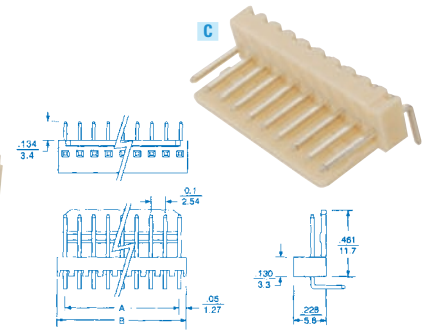
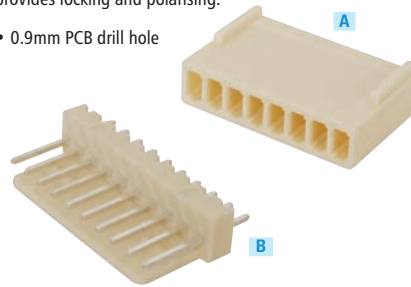
0.1" (2.54mm) Locking & Polarising Header Connectors

A range of connectors for PCB mounting that allow circuit boards to be plugged together at right angles or end-to-end, or cables to be plugged onto circuits boards at right angles or end-on at the edge of the PCB. Both plugs and sockets may be butted up end-to-end to form connectors with any number of ways from 2 upwards.

Technical Information:	All
Voltage:	250V
Current: Brass Crimp/Tin plated:	2.5A max. (solderable)
Contact Resistance:	20mΩ max
Dielectric Withstanding Voltage:	1500VAC
Insulation Resistance:	50MΩ
Contact insertion force:	681g
Contact Retention to Housing:	3.63kg
Mating Force:	199g max
Normal Force:	200g min
Housing:	UL 94v-0 White nylon
Temperature:	0 to +75°C

Both plugs are wafer design into which square, tin-plated brass pins have been inserted. These pins protrude 3.4 mm on one side, and should be soldered to the PCB. The nylon wafer sits on the PCB and is 3.3 mm thick. The back provides locking and polarising.

- 0.9mm PCB drill hole



Suitable crimping tool for 0.1" header sockets is our Cat. TH-1834

0.1" HEADER SOCKETS, LOCKING & POLARISED See photograph "A"

↑ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3402	\$0.50	\$0.45	\$0.40
3	HM-3403	\$0.55	\$0.47	\$0.42
4	HM-3404	\$0.65	\$0.57	\$0.50
6	HM-3406	\$0.75	\$0.65	\$0.60
8	HM-3408	\$0.95	\$0.85	\$0.75
10	HM-3410	\$1.10	\$0.95	\$0.85

0.1" PIN PCB PLUG (STRAIGHT ENTRY, LOCKING & POLARISED) See photograph "B"

↑ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3412	\$0.20	\$0.18	\$0.16
3	HM-3413	\$0.30	\$0.25	\$0.24
4	HM-3414	\$0.40	\$0.35	\$0.30
6	HM-3416	\$0.60	\$0.52	\$0.47
8	HM-3418	\$0.80	\$0.70	\$0.62
10	HM-3420	\$1.00	\$0.90	\$0.80

0.1" PIN PCB PLUG (RIGHT ANGLE ENTRY, LOCKING & POLARISED) See photograph "C"

↑ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3422	\$0.30	\$0.25	\$0.24
3	HM-3423	\$0.35	\$0.30	\$0.27
4	HM-3424	\$0.40	\$0.35	\$0.30
6	HM-3426	\$0.60	\$0.52	\$0.47
8	HM-3428	\$0.80	\$0.70	\$0.62
10	HM-3430	\$0.90	\$0.80	\$0.70

0.156" (4mm) Locking & Polarising Header Connectors

This range is similar to the range shown above, but much more robust. The contacts are rated at 250V @ 7A AC/DC which makes them an ideal power connector to a PCB. They are end to end stackable and commonly seen as the output connector on Switchmode power supplies.

Technical Information	All
Voltage:	250V
Current:	7.0A
Contact Resistance:	20mΩ max
Dielectric Withstanding Voltage:	1500V
Insulation Resistance:	500k Ohm min
Contact Insertion Force:	2.28kg
Contact Retention to Housing:	4.56kg
Wire Pull-Out force:	2.85kg
Mating Force:	0.86kg
Unmating Force:	150g
Durability:	25 cycles
Housing:	Nylon, UL 94V-2
Temperature:	-40 to 105°C

0.156" (4MM) HEADER SOCKETS, LOCKING & POLARISED (Includes crimp Pins)

Crimper to suit Cat TH-1834

↑ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3432	\$0.80	\$0.70	\$0.62
3	HM-3433	\$0.90	\$0.80	\$0.70
4	HM-3434	\$1.00	\$0.90	\$0.80
6	HM-3436	\$1.30	\$1.15	\$1.01
8	HM-3438	\$1.40	\$1.25	\$1.10
10	HM-3440	\$1.50	\$1.35	\$1.20

0.156" (4MM) LOCKING & POLARISED, STRAIGHT ENTRY PIN PCB PLUG (To match previous headers).

↑ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3442	\$0.30	\$0.25	\$0.24
3	HM-3443	\$0.35	\$0.30	\$0.27
4	HM-3444	\$0.40	\$0.35	\$0.30
6	HM-3446	\$0.60	\$0.52	\$0.47
8	HM-3448	\$0.80	\$0.70	\$0.62
10	HM-3450	\$0.90	\$0.80	\$0.70

DISK DRIVE CONNECTORS

Disk Drive - 4 Pin Connectors

DISK DRIVE POWER CONNECTOR - PLUG

Plug for wiring power to any standard drive. Has crimp pins.



DISK DRIVE PCB POWER PLUG

Power plug for PC drives.



DISK DRIVE POWER SOCKET

Socket for wiring power cables for use on any standard drive. Has crimp pins.



DISK DRIVE IDC POWER SOCKET

- Insulation displacement type



↑		Cat.	Qty 1+	Qty 10+	Qty 50+
	Power Plug	PP-0743	\$1.95	\$1.75	\$1.55
	PCB Power Plug	PP-0744	\$1.45	\$1.30	\$1.15
	Power Socket	PS-0742	\$2.95	\$2.60	\$2.30
	IDC Power Socket	PS-0740	\$3.95	\$3.45	\$3.15

SOLDER LUGS

Solder Lugs

Solder lugs for any screw down connection.

- Length: 17.6mm
- ID#1: 4.3mm
- ID#2: 2.0mm



↑ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
50	HP-1350	\$3.95	\$3.45	\$3.15

TAGSTRIPS

Tagstrips

- Tin plated lugs

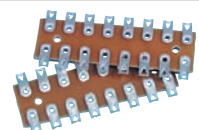


↑ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3302	\$0.65	\$0.59	\$0.52
3 Way	HM-3303	\$0.80	\$0.72	\$0.64
4 Way	HM-3304	\$0.85	\$0.77	\$0.68
5 Way	HM-3305	\$1.00	\$0.85	\$0.75
8 Way	HM-3308	\$1.50	\$1.35	\$1.20

Tagboard

2 tagboards per pack with 8 tin plated lugs per side.

- Dimensions: 80(L) x 32(W)mm including lugs.



↑ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3320	\$4.85	\$4.30	\$3.75

IDC

IDC Headers

All headers have gold plated pins.

VERTICAL

Dimensions (mm)	Pins	A	B	C
Cat. PP-1100	10	20	18	10
Cat. PP-1106	16	28	26	18
Cat. PP-1110	26	41	38.5	30.5
Cat. PP-1112	34	51	49.5	41
Cat. PP-1114	40	58.5	56	48
Cat. PP-1116	50	71	69	61

↑ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1100	\$0.95	\$0.85	\$0.75
16	PP-1106	\$1.25	\$1.10	\$0.97
26	PP-1110	\$1.65	\$1.45	\$1.30
34	PP-1112	\$1.95	\$1.75	\$1.55
40	PP-1114	\$2.25	\$1.95	\$1.80
50	PP-1116	\$0.95		

RIGHT ANGLE

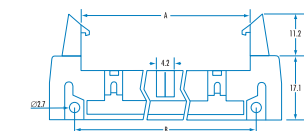
Dimensions (mm)	Pins	A	B	C
Cat. PP-1118	10	20	18	10
Cat. PP-1122	16	28	26	18
Cat. PP-1126	26	41	38.5	30.5
Cat. PP-1128	34	51	49.5	41
Cat. PP-1132	50	71	69	61

↑ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1118	\$1.25	\$1.10	\$0.97
16	PP-1122	\$1.45	\$1.30	\$1.15
26	PP-1126	\$1.75	\$1.55	\$1.40
34	PP-1128	\$2.25	\$1.95	\$1.80
50	PP-1132	\$2.95	\$2.60	\$2.30

IDC Locking Headers

All headers have gold plated pins.

VERTICAL



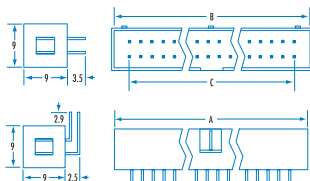
Dimensions (mm)	Pins	A	B	C	D
Cat. PP-1134	10	32	10	22	18
Cat. PP-1138	16	39.5	18	29.5	25.5
Cat. PP-1140	20	45	23	34.5	31
Cat. PP-1142	26	52	30.5	42	38
Cat. PP-1148	50	83	61	73	69

↑ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1134	\$1.25	\$1.10	\$0.97
16	PP-1138	\$1.65	\$1.45	\$1.30
20	PP-1140	\$1.95	\$1.75	\$1.55
26	PP-1142	\$2.25	\$1.95	\$1.80
50	PP-1148	\$3.75	\$3.30	\$2.95

RIGHT ANGLE

Dimensions (mm)	Pins	A	B	C	D
Cat. PP-1150	10	32	10	22	18
Cat. PP-1154	16	39.5	18	29.5	25.5
Cat. PP-1158	26	52	30.5	42	38
Cat. PP-1164	50	83	61	73	69

↑ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1150	\$1.45	\$1.30	\$1.15
16	PP-1154	\$1.75	\$1.55	\$1.40
26	PP-1158	\$0.95		
50	PP-1164	\$0.95		



IDC LINE SOCKETS

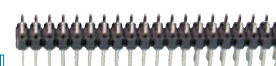
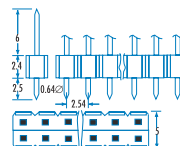
- Insulation displacement connection
- Suits standard pitch ribbon cable



↑ Pins	Cat.	Qty 1+	Qty 10+	Qty 50+
10	PS-0984	\$1.65	\$1.45	\$1.30
16	PS-0985	\$1.85	\$1.65	\$1.45
20	PS-0986	\$1.95	\$1.75	\$1.55
26	PS-0987	\$2.25	\$1.95	\$1.80
34	PS-0988	\$2.65	\$2.30	\$2.07
40	PS-0989	\$2.95	\$2.60	\$2.30
50	PS-0990	\$3.45	\$3.05	\$2.75

DUAL IN-LINE JUMPERS

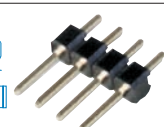
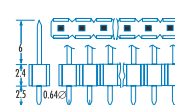
- 40 way (2 x 20)
- Snap apart.



↑ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
40	HM-3250	\$1.75	\$1.55	\$1.40

HEADER TERMINAL STRIPS 28 & 40 PIN

VERTICAL LAUNCHER - 0.1" / 2.54mm Pitch
For PCBs and PCB mass terminals.
Snap apart if you need a small length.



Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
28	HM-3211	\$0.85	\$0.75	\$0.65
40	HM-3212	\$0.95	\$0.85	\$0.75

JUMPER SHUNTS

2.54mm spacing. Pkt 10



↑ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HM-3240	\$1.85	\$1.65	\$1.45

PCB PINS & SOCKETS

PCB Pins & Sockets

0.9mm pins and sockets for easy termination of wire on PCB boards.

- Gold flashed.



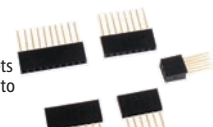
↑ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
Pins 50	HP-1250	\$4.50	\$3.95	\$3.60
Sockets 25	HP-1260	\$5.50	\$4.90	\$4.30

ARDUINO HEADERS

Stackable Header Set for Arduino

The perfect accessory to the ProtoShield Basic, Pro, and vero type boards when connecting to your Arduino compatible project. Stackable headers have female sockets on the top side and male pins underneath, allowing you to conveniently stack boards and shields up in your project.

- Gold flash 0.1" pitch quality stackable headers
- 2 x 8 pin and 2 x 6 pin included to suit the Eleven, EtherTen, USBdroid and ProtoShields



↑	Qty 1+	Qty 4+	Qty 10+
HM-3207	\$4.20	\$3.75	\$3.30

RELATED PRODUCTS

FROM
\$119.00
QM-3548



MAGNIFIERS

P62

FROM
\$19.95
TH-1760



TWEEZERS

P58

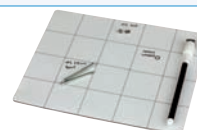
FROM
\$19.95
TH-1980



PCB HOLDERS

P44

FROM
\$12.95
TH-1867



MAGNETIC WORKMAT

P55

STANDARD QUICK CONNECTORS

NYLON INJECTION MOULDING

Unlike the majority of quick crimp connectors available on the market, our range of standard quick connectors are made with a nylon injection moulded insulation as opposed to the heat shrunk vinyl insulation most others feature. The injection-moulded nylon insulation is temperature rated to 105°C, and features a moulded funnel taper in the insulation for easy cable entry.

Bullets

- Red: Cable entry size 4.3mm
Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm
Wire size 1.5 - 2.5mm dia.
- Yellow: Cable entry size 6.6mm
Wire size 4 - 6mm dia.



ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	4	8	PT-4500	\$3.50	\$3.15	\$2.75	50	PT-4501	\$9.95	\$8.75	\$7.75
B Male	4	8	PT-4600	\$3.50	\$3.15	\$2.75	100	PT-4601	\$15.95	\$14.35	\$12.70
C Male	4	8	PT-4700	\$3.75	\$3.30	\$2.95	100	PT-4701	\$18.95	\$16.95	\$14.95
D Female	4	8	PT-4502	\$3.50	\$3.15	\$2.75	50	PT-4503	\$9.95	\$8.75	\$7.75
E Female	4	8	PT-4602	\$3.50	\$3.15	\$2.75	100	PT-4603	\$15.95	\$14.35	\$12.70
F Female	4	8	PT-4702	\$3.75	\$3.30	\$2.95	100	PT-4703	\$18.95	\$16.95	\$14.95

Spades

- Red: Cable entry size 4.3mm
Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm
Wire size 1.5 - 2.5mm dia.
- Yellow: Cable entry size 6.6mm
Wire size 4 - 6mm dia.



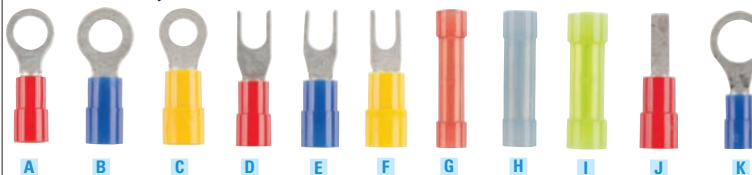
ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	4.8	8	PT-4518	\$2.75	\$2.45	\$2.15	100	PT-4610	\$14.95	\$13.35	\$11.70
B Male	4.5	8	PT-4609	\$2.75	\$2.45	\$2.15	100	PT-4721	\$17.95	\$15.95	\$14.35
C Female	4.8	8	PT-4722	\$3.45	\$3.05	\$2.75	100	PT-4524	\$13.95	\$12.35	\$10.95
D Female	4.8	8	PT-4522	\$2.75	\$2.45	\$2.15	100	PT-4621	\$14.95	\$13.35	\$11.70
E Female	4.8	8	PT-4622	\$2.75	\$2.45	\$2.15	100	PT-4710	\$17.95	\$15.95	\$14.35
F Male	6.4	8	PT-4709	\$3.45	\$3.05	\$2.75					



ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	6.4	8	PT-4509	\$2.75	\$2.45	\$2.15	100	PT-4512	\$13.95	\$12.35	\$10.95
B Female	6.4	8	PT-4607	\$2.75	\$2.45	\$2.15	100	PT-4608	\$15.95	\$14.35	\$12.70
C Female	6.8	8	PT-4707	\$2.75	\$2.45	\$2.15	100	PT-4708	\$18.95	\$16.95	\$14.95
D Female	6.8	8	PT-4507	\$2.75	\$2.45	\$2.15	100	PT-4513	\$13.95	\$12.35	\$10.95
E Female	6.4	8	PT-4625	\$2.95	\$2.60	\$2.30	50	PT-4626	\$9.95	\$8.75	\$7.75
F Female	6.8	8	PT-4725	\$3.75	\$3.30	\$2.95	100	PT-4726	\$12.95	\$11.35	\$10.35
G Female	6.8	8	PT-4525	\$2.75	\$2.45	\$2.15	50	PT-4526	\$9.95	\$8.75	\$7.75
H Piggybk	6.4	8	PT-4510	\$2.75	\$2.45	\$2.15	100	PT-4511	\$13.95	\$12.35	\$10.95

Eye, Fork, Butt & Blades

- Red: Cable entry size 4.3mm / Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm / Wire size 1.5 - 2.5mm dia
- Yellow: Cable entry size 6.6mm / Wire size 4 - 6mm dia.



ID	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Eye	8	PT-4514	\$2.75	\$2.45	\$2.15	100	PT-4515	\$13.95	\$12.35	\$10.95
B	Eye	8	PT-4614	\$2.75	\$2.45	\$2.15	100	PT-4615	\$14.95	\$13.35	\$11.70
C	Eye	8	PT-4714	\$3.75	\$3.30	\$2.95	100	PT-4715	\$17.95	\$15.95	\$14.35
D	Fork	8	PT-4523	\$2.75	\$2.45	\$2.15	100	PT-4529	\$13.95	\$12.35	\$10.95
E	Fork	8	PT-4623	\$2.75	\$2.45	\$2.15	100	PT-4624	\$14.95	\$13.35	\$11.70
F	Fork	8	PT-4723	\$3.75	\$3.30	\$2.95	100	PT-4724	\$17.95	\$15.95	\$14.35
G	Butt	8	PT-4527	\$2.75	\$2.45	\$2.15	100	PT-4528	\$13.95	\$12.35	\$10.95
H	Butt	8	PT-4627	\$2.75	\$2.45	\$2.15	100	PT-4628	\$14.95	\$13.35	\$11.70
I	Butt	8	PT-4727	\$3.75	\$3.30	\$2.95	100	PT-4728	\$17.95	\$15.95	\$14.35
J	Blade	8	PT-4516	\$2.75	\$2.45	\$2.15	100	PT-4517	\$13.95	\$12.35	\$10.95
K	Eye	8	PT-4618	\$2.75	\$2.45	\$2.15	8	PT-4718	\$3.75	\$3.30	\$2.95

Large Spade Quick Connectors

- Spade socket
- 9.5mm
- Pack of 4



Suits 60A horn relay SY-4074

↑	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
	4	PT-4717	\$3.95	\$3.45	\$3.15

Ferrule Crimp Connectors

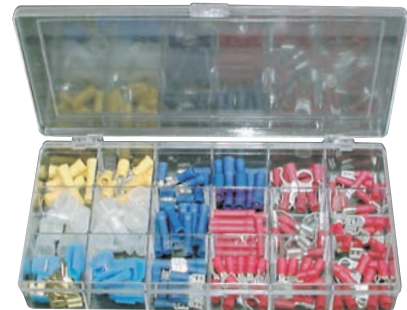


ID	Pk	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
A	20	0.75mm ²	PT-4433	\$2.95	\$2.60	\$2.30
B	20	1.50mm ²	PT-4533	\$2.95	\$2.60	\$2.30
C	20	2.5mm ²	PT-4633	\$2.95	\$2.60	\$2.30

QUICK CONNECT PACK

Quick Connect Pack

A box of all the standard 1/4" (6.35mm) QC tabs and receptacles, but also the odd QC sizes ie: 3.3mm and 4.8mm sizes. Total 160 pieces. Includes the following:



- 10 x 6.4mm female crimp spade lugs wire dia 1.8mm
- 10 x 6.4mm female crimp spade lugs wire dia 3.5mm
- 10 x Close end wire crimpers - dia 2.6mm
- 10 x Close end wire crimpers - dia 3.8mm
- 5 x Contact wire connectors
- 10 x Female bullet connectors - insulated
- 10 x Male bullet connectors - insulated
- 5 x 3 way spade lug connectors 6.8mm
- 5 x spade piggyback connectors 6.8mm
- 10 x 4.9mm female spade lugs
- 10 x 8.4mm hole dia ring terminals
- 10 x 5.7mm hole dia ring terminals
- 10 x 5.3mm hole dia spade terminals
- 10 x 4.3mm hole dia spade terminals
- 5 x 3.5mm dia butt connectors
- 5 x 2.3mm dia butt connectors
- 5 x 1.8mm dia butt connectors
- 10 x 3.3mm spade connectors (tweeter connectors)
- Beware of others with less than 160 pieces.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PT-4530	\$22.95	\$20.35	\$18.35

DON'T FORGET THESE ACCESSORIES:

FROM
\$39.95
TH-1829



CRIMPING TOOLS

P50

CABLE & CONNECTORS

CRIMP LUGS & TERMINALS

SELF SEALING QUICK CONNECTORS

The unique heat sensitive sealing gel in these quick connectors will automatically flood the crimp joint with sealant as the heatshrink sleeve is heated.

SPADES



ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	4.8mm	8	PT-4818	\$5.95	\$5.25	\$4.75
B	Female	4.8mm	8	PT-4822	\$5.95	\$5.25	\$4.75
C	Male	6.4mm	8	PT-4809	\$5.95	\$5.25	\$4.75
D	Female	6.4mm	8	PT-4807	\$5.95	\$5.25	\$4.75
E	Female Ins.	6.4mm	8	PT-4825	\$6.95	\$6.25	\$5.50
F	Piggyback	6.4mm	8	PT-4810	\$6.95	\$6.25	\$5.50

The resulting crimp connection is water and corrosion resistant and has good strain relief properties. 11 styles to choose from.

EYE, FORK, BUTT & BULLETS



ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Eye	5.3(ID)/8.0(OD)	8	PT-4814	\$5.95	\$5.25	\$4.75
B	Fork	3.7(ID)/5.7(OD)	8	PT-4823	\$5.95	\$5.25	\$4.75
C	Butt	4.7	8	PT-4827	\$6.95	\$6.25	\$5.50
D	Male	4	8	PT-4800	\$5.95	\$5.25	\$4.75
E	Female	4	8	PT-4802	\$6.95	\$6.25	\$5.50

EYE TERMINALS

Non-Insulated Eye Terminals

A range of non-insulated eye terminals for a variety of electronic or automotive applications.

See website for specifications



ID	Hole	Cable Entry	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
A	4mm	2.5mm ²	8	PT-4930	\$2.75	\$2.45	\$2.15
B	6mm	4mm ²	8	PT-4932	\$2.75	\$2.45	\$2.15
C	6mm	6mm ²	8	PT-4934	\$2.75	\$2.45	\$2.15
D	8mm	6mm ²	8	PT-4935	\$2.75	\$2.45	\$2.15
E	8mm	10mm ²	8	PT-4936	\$3.45	\$3.05	\$2.75
F	8mm	25mm ²	4	PT-4937	\$3.95	\$3.45	\$3.15
G	8mm	35mm ²	4	PT-4938	\$5.95	\$5.25	\$4.75
H	8mm	50mm ²	2	PT-4939	\$4.95	\$4.45	\$3.90

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics:
PO Box 7172
Silverwater, NSW 1811
or email
to catalogue@jaycar.com

CRIMP CONNECTORS

Non-Insulated Spade Connectors

More Crimping Tools on pages 50



ID	Type	Size	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Socket	6.3mm	10	PT-4630	\$2.75	\$2.45	\$2.15
B	Plug	6.3mm	10	PT-4631	\$2.75	\$2.45	\$2.15

6.3mm PCB Mount PCB Spade Connectors

Commonly used to connect power to a PCB board. They work perfectly with 6.3mm female spade connectors.

- PCB tag: 6.3mm
- Pitch: 5mm
- Current rating: 30A
- Thickness: 0.81mm

↑	Size	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
PCB Mount	6.3mm	8	PT-4914	\$2.65	\$2.35	\$2.10

6.3mm Chassis Mount Double Spade

Pack of 8 pieces of 6.3mm chassis mount double spade connectors.

- Double Ended 6.3mm
- Chassis Mounting Hole: 4(Dia.)mm

↑	Size	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
Chassis	6.3mm	8	PT-4916	\$2.65	\$2.35	\$2.10

Phone Type Crimp Lugs

- Brass Spade width - 3.2mm
- Cable entry 2.5mm



↑	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
	15	PT-4520	\$2.95	\$2.60	\$2.30
	100	PT-4521	\$12.95	\$11.35	\$10.35

CRIMP CONNECTOR PACKS

Automotive Crimp Tool with 80 Connectors

The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts.



8 each of male & female blue bullets
8 each of male & female blue spades
8 x red eye connectors

8 each of male & female red bullets
8 each of male & female red spades
8 x blue butt joiners

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1848	\$14.95	\$13.45	\$11.95

300 Piece QC Crimp Connector Pack

Contains 300pcs of only the most commonly-used quick connectors from our range of separately sold QC connectors. Insulation is injection-moulded Nylon rated to 105°C, with a moulded funnel taper in the insulation for easy cable entry. Beware of other QC connector packs that contain cheap vinyl connectors. Pack contains (300pcs in total):

RED - FOR 0.75 - 1.0MM CABLE
20 x female/20 x male bullet
20 x 4mm/20 x 5mm ring
20 x 4mm fork/25 x female spade
25 x male spade/10 x cable joiner

YELLOW - FOR 4-6MM CABLE
5 x 5mm/5 x 6mm ring
5 x cable joiner

BLUE - FOR 1.5 - 2.5MM CABLE
15 x female/20 x male bullet
20 x 4mm/10 x 6mm ring
25 x female/25 x male spade
10 x cable joiner



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PT-4536	\$39.95	\$35.95	\$31.95

POWER

Batteries & Chargers - Consumer	279
Battery Chargers - SLA/GEL	240
DC-DC Converters	264
Gel / SLA Batteries	243
Inverters	254
Mobile Phone & GPS Chargers	298
Plugpacks & Adaptors	265
Powerboards	275
Power Management Systems	277
Power Meters	278
Power Supplies	263

RENEWABLE ENERGY

Solar Charging Regulators	252
Solar Connectors & Cable	251
Solar Mounting Hardware	250
Solar Panels - Amorphous	248
Solar Panels - Flexible	248
Solar Panels - Monocrystalline	249
Solar Powered Pumps	247

LIGHTING

Energy Saving Lighting	292
Fluoro Tubes	294
Halogen Lamp Replacements	296
LED Downlight Replacement Globes	293
LED Modules & Strips	289
Nightlights	274

Background image sent to us by Victor who shops at our Jaycar East Kew store

"My well loved and sightly cluttered workplace - the source of many hours of joy and experimentation. Thank you Jaycar for always being close at hand."

SWITCHMODE MULTI-STATE BATTERY CHARGERS**6/12VDC 1.5A 3 Stage Battery Charger**

3 stage set and forget maintenance charger. Automatically diagnoses and recharges 6 or 12V lead acid, gel and AGM rechargeable batteries for boats, motorcycles etc. This little unit packs a real punch with 1.5A maximum charging power for faster recharging. Maintains your battery for months and extends battery life by constantly monitoring battery condition for bulk, trickle or maintenance charges accordingly.

Specifications	MB-3609
Output voltage	7.2, 14.2VDC
Charging current	1.5A max
Efficiency	>75%
Back current drain	<35mA
Capacity	6 - 20Ah
Dimensions	110(L) x 58(W) x 46(D)mm



↑		Cat.	Qty 1+	Qty 2+	Qty 4+
	6/12VDC 1.5A	MB-3609	\$49.95	\$44.90	\$39.90

6/12VDC 4A 4 State Charger

This smart charger uses a microprocessor to diagnose the batteries state of charge, providing the correct charging mode, eventually switching to float/maintenance charge to keep the battery at full charge and eliminate battery sulphation. Suitable for all types of SLA batteries-wet cell, gel cell and AGM ranging from 5Ah to 120Ah. This charger has pre charge mode to identify sulphated batteries and pre charge at low current for a period before automatically switching to high current to extend your batteries working life.

Charge modes:

- Pre-charge, Constant current, Constant voltage, Float charge

Specifications:

- 4A maximum at 12V
- 1A maximum at 6V
- Ripple: ≤120mV
- Back current drain: ≤1.2mA
- Dimensions: 200(L) x 70(W) x 50(D)mm



↑		Cat.	Qty 1+	Qty 2+	Qty 4+
	6/12VDC 4A	MB-3611	\$89.95	\$80.95	\$71.95

BATTERY CHARGER COMPARISON GUIDE

High tech SLA battery chargers for automotive, marine, motorcycle, workshop or industrial use. All feature switchmode operation, multi-stage maintenance and charging, near-bulletproof performance and microprocessor control. All are IP rated for use in workshops and hostile environments.

- 3 year warranty
- Anti-spark protection
- Short circuit & reverse polarity protection
- Dust & splash proof - most are IP65 rated



Use our selection guide to help choose...

	Output Voltage(s)	Max Output Current	Multi Stage	IP65 Rated	Power Supply Mode	Fan Cooled	Short Circuit Protection	Wrong Polarity Protection	Page
MB-3618	6VDC	600mA	-	-	-	-	-	-	242
MB-3619	12VDC	1A	-	-	-	-	-	-	242
MB-3518	2/6/12VDC	600mA	-	-	-	-	✓	✓	242
MB-3527	6/12/24VDC	1.2A	-	-	-	-	✓	✓	242
MB-3522	6/12VDC	6.8A / 5.4A	✓	-	-	-	✓	✓	242
MB-3625	12VDC	10A	✓	-	-	✓	✓	✓	242
MB-3623	6/12/24VDC	2A / 15A / 7A	✓	-	-	✓	✓	✓	242
MB-3609	6/12VDC	1.5A	✓	-	-	-	✓	✓	239
MB-3611	6/12VDC	1A / 4A	✓	✓	-	-	✓	✓	239
MB-3613	12/24VDC	7.2A / 3.6A	✓	✓	-	-	✓	✓	240
MB-3607	12/24VDC	15A / 7.5A	✓	✓	✓	-	✓	✓	241
MB-3608	12/24VDC	25A / 12.5A	✓	✓	✓	-	✓	✓	241
MB-3710	12VDC	15A	✓	-	✓	✓	✓	-	241
MB-3715	12VDC	40A	✓	-	✓	✓	✓	-	241

MULTI-STATE BATTERY CHARGERS (CONTINUED)

12V-7.2A/24V-3.6A 9 State Charger

The bigger brother of MB-3611, this is a fully automatic 9 state charger for 12 or 24V sealed lead acid batteries- wet cell, gel cell and AGM. Advanced diagnostics enable this unit to maximise charge rate while also maximising battery life. You can also switch it onto power supply mode where it will act as a 13.8V and up to 5A power supply, useful in supplying power to computer systems of many modern cars when replacing batteries.

Charging states include:

Battery test: Checks the battery to ensure it is ready for charging, polarity of leads etc.

Desulphation: Detects sulfated batteries. Pulsing current and voltage, removes sulfate from the lead plates of the battery restoring the battery.

Soft start: Initial battery test to determine battery condition. If the battery is severely discharged, charger will begin the Soft Start stage. Charging starts with reduced current until battery voltage reaches a normal condition for charge.

Bulk mode: Major charging stage where the battery receives the majority of its charge. During this stage the battery is charged to up to 80% capacity.

Absorption mode: Completes the charge up to virtually 100% at a slower charge rate to protect the batteries working life.

Recondition mode: Select "Recondition" mode, charges at higher voltage to recondition the sulfate of the battery to save battery life.

Analysis: Tests if the battery can hold charge. Batteries that cannot hold charge may need to be replaced.

Float: Low constant voltage, minimal charge current, battery is fully charged.

Pulse mode: Maintaining the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.



Specifications	MB-3613
Input voltage	220 - 240VAC
Output voltage	5-14.7V (12V battery), 10-29.4V (24V battery)
Input current	5A @ 220VAC
Charging current	12V - 7.2A, 24V - 3.6A
Efficiency	>75%
Ripple	≤150mV
Back current drain	≤1.2mA
Rated	IP65
Dimensions	210(L) x 90(W) x 60(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24VDC 7.2A/3.6A	MB-3613	\$169.00	\$151.95	\$134.95

TECH TALK!

MULTI-STATE CHARGERS

All-in-one chargers which have multiple charge settings to suit different sized batteries and charging requirements. Capable of recharging the battery and maintaining the charge state indefinitely, they are particularly well suited to being continuously

connected to a battery. Some models also have additional functions such as rapid boost charging and can also be used as a general purpose high current power supply.

MULTI-STATE BATTERY CHARGERS (CONTINUED)

12V-15A/24V-7.5A 9-State

Nine step fully automatic 15 amp high current charger with maintenance charging of all types of SLA batteries as well as lead-calcium batteries from 50 - 250Ah, and either 12V or 24V. The electronics are fully microprocessor controlled and protected against user error, so is totally safe to leave connected for months at a time. This charger will also charge in sub-zero temperatures, will recover sulphated batteries and can be used as a 10A power supply. Also features "boost" modes to recover deeply discharged batteries. The battery output lead has a temperature sensor to automatically compensate charging voltage dependant on temperature, so no matter what the conditions, you will get a full charge into your battery. The output lead is also fitted with Anderson connectors to allow for easy connection to existing wiring or use of the included alligator clips or bolt terminals.

- Short circuit and reverse polarity protection
- Anti-spark protection
- IP65 outdoor rated
- Standby, fault, mode selection and charging LED indicators
- Mounting feet for wall mounting
- Safe to leave connected for months at a time

Specifications	MB-3607
Input voltage	220 - 240VAC
Output voltage	12 or 24VDC
Input current	2A max
Charging current	12V-15A, 24V-7.5A, 12V-Calcium-5A
Efficiency	> 75%
Ripple	150mV, 300mA max
Back current drain	<5mA
Rating	IP65
Dimensions	260(L) x 135(W) x 70(H)mm



		Cat.	Qty 1+	Qty 2+	Qty 4+
12V/24V	15A/7.5A	MB-3607	\$349.00	\$309.00	\$279.00

12V-25.0A/24V-12.5A 9-State

Nine step fully automatic 25 amp high current charger with maintenance charging of all types of SLA batteries as well as lead-calcium batteries from 50 - 500Ah, either 12V or 24V. The electronics are fully microprocessor controlled and protected against user error, so is totally safe to leave connected for months at a time. This charger will also charge in sub-zero temperatures, will recover sulphated batteries and can be used as a 5A power supply. Also features "boost" modes to recover deeply discharged batteries. The battery output lead has a temperature sensor to automatically compensate charging voltage dependant on temperature, so no matter what the conditions, you will get a full charge into your battery. For caravan and boat users, it also has a night charge mode: in this silent mode, charging is performed at reduced current with the cooling fans turned off, then returns to normal levels after 9 hours. See our website to download full product info sheet.

Specifications	MB-3608
Input voltage	220 - 240VAC
Output voltage	12 or 24VDC
Input current	4A max
Charging current	12V-25A, 24V-12.5A
Efficiency	> 75%
Ripple	150mV, 300mA max
Back current drain	<5mA
Rating	IP65
Dimensions	260(L) x 135(W) x 70(H)mm

Perfect for boats, caravans & motorhomes

See our website to download full product info sheet.



		Cat.	Qty 1+	Qty 2+	Qty 4+
12V/24V	25A/12.5A	MB-3608	\$469.00	\$425.00	\$379.00

12V 15/40A High Power 4-Stage Wall Mount 240V Battery Chargers

Tough wall mounted high power battery chargers designed to quickly recharge 12V lead-acid batteries (wet, sealed, AGM, etc) with a high level of efficiency and charge current. They feature microprocessor controlled smart 4-stage charging to ensure battery life is maintained by monitoring and charging the batteries safely, resulting in a charger that is safe to leave connected indefinitely. Thanks to their auto-start feature, they are a fantastic choice for caravan, motorhome or marine applications. Output is fully electrically isolated, and the charger can even be set to operate as a regulated high current power supply. DIP switches allow you to select the charging voltage, and output is via heavy duty screw terminals.

Specifications	MB-3710 12V 15A	MB-3715 12V 40A
Input voltage	230VAC	230VAC
Bulk/Absorption	14.2VDC / 14.6VDC / 14.8VDC	14.2VDC / 14.6VDC / 14.8VDC
Float charging	13.2VDC / 13.5VDC / 13.8VDC	13.2VDC / 13.5VDC / 13.8VDC
Output current (max)	15A	40A
Advantage boost charging	Yes	Yes
Efficiency	up to 88%	up to 88%
Over charging protected	Max absorption time 6 hours	Max absorption time 6 hours
Output short circuit protected	Yes, with current limiting	Yes, with current limiting
LED Display	Green - Charger on, Green - Float, Yellow - Absorption, Red - Bulk	Green - Charger on, Green - Float, Yellow - Absorption, Red - Bulk
Operating temperature	0 - 40°C	0 - 40°C
Dimensions	205(L) x 130(W) x 70(D)mm	250(L) x 235(W) x 80(D)mm



		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	15A	MB-3710	\$249.00	\$255.00	\$198.95
12V	40A	MB-3715	\$519.00	\$459.00	\$409.00

BATTERY CHARGE & BOOST CONTROLLERS

Battery-to-Battery DC Charge Controller 12/24V 140A

This advanced programmable Battery-to-Battery DC Charge Controller can be used in three different and distinct ways making it a genuine battery management control system. Firstly, it can be used as a bi-directional, fully programmable battery to battery charge controller. Alternatively, it can be used as an independent, fully programmable DC load controller low voltage disconnect/reconnect with programmable twin timer functions. Or finally, it can be used in conjunction with the SuperCombi power management system as the DC load controller or DC generator input. Being fully programmable via the large LCD and simple intuitive front panel controls, the possible applications for this little device are vast and the programmable flexibility allows for even the more abnormal installations - even if the battery is mounted right up the other end of your caravan with 20m of cable from the DC charging source, you can adjust the voltage set points to compensate for voltage drop of the cables.

- Suitable for 12V or 24V systems, up to 140A maximum current.

Specifications	MI-5282
Operating voltage	9-35VDC
Rated continuous current	100A/12V, 70A/24V
Rated intermittent current	140A/12V, 100A/24V
Dimensions	111(W) x 90(H) x 58(D)mm

See website to download user manual.



VIDEO



		Cat.	Qty 1+	Qty 3+	Qty 6+
140A DC Switch Controller		MI-5282	\$319.00	\$279.00	\$249.00

BATTERY CHARGERS

TECH TALK!

LOW CURRENT CHARGERS

Low current output designed to steadily recharge sealed lead acid (SLA) batteries without causing the battery to overheat and become a swollen mess. As a guideline the charger's current rating should be no more than 10 to 15% of the battery's ampere-hour rating.

6V-600mA & 12V-1000mA

A new range of mains powered Lead Acid battery chargers designed for 6V (MB-3618) and 12V (MB-3619). These intelligent automatic battery chargers stop charging when the battery is full and start to maintain the battery with a 'floating' charge mode. The charger monitors the battery voltage and tops-up the battery to keep it fully charged all the time. This feature allows you to leave the charger connected to the battery without risk of overcharging. It comes with a LED indication for battery charging status. The 2m long cable includes an interchangeable DC plug and Alligator clips.

Specifications	MB-3618	MB-3619
Input	100-240VAC, 60/50Hz	100-240VAC, 60/50Hz
Charging current	600mA	1000mA
Charging voltage	6.0VDC	12.0VDC
Float output voltage	6.8-7.2VDC	14.4VDC
Bulk charge mode voltage	6.0-6.8VDC	14.0VDC
Dimensions	65(L) x 52(D) x 36(W)mm	70(L) x 40(D) x 40(W)mm



		Cat.	Qty 1+	Qty 2+	Qty 4+
6V	600mA	MB-3618	\$19.95	\$17.95	\$15.95
12V	1000mA	MB-3619	\$19.95	\$17.95	\$15.95

2, 6 & 12V 600mA

This fully automatic charger will charge 2V, 6V, and 12V sealed, and standard (car) lead-acid batteries. When the battery is completely charged, the current is automatically reduced to prevent overcharging.

- 600mA charging current
- Short circuit and wrong polarity protected
- Constant charging current
- No charge if battery connected incorrectly
- LED's show charging state

Output lead has battery clips for easy charging. Ideal to trickle charge your car battery while on holidays or keep those SLA batteries charged and in tip top condition.

	Approval No.	Cat.	Qty 1+	Qty 2+	Qty 4+
2V/6V/12V 600mA	N19029	MB-3518	\$29.95	\$26.95	\$23.95

6, 12 & 24V 1.2A Automatic

This switchmode SLA battery charger has an automatic function that cuts the charging current to near zero once the battery is charged, whilst still continuing to monitor battery voltage. Works with 6V, 12V or 24V SLA batteries, and automatically detects the battery voltage ensuring you don't make any mistakes - just connect the charger and it starts automatically. LED indicator shows charging state, with connections made by alligator clips.

- 6V, 12V and 24V charging
- Short circuit and reverse polarity protection
- Automatic cut-out and voltage detection
- Will not charge a completely flat battery
- Dimensions: 100(L) x 45(W) x 20(D)mm

		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V/24V	1.2A	MB-3527	\$39.95	\$35.95	\$31.95

TECH TALK

WHEN IS A LEAD-ACID BATTERY DEAD?

Lead acid battery technology has been around for about 150 years. The technology is as reliable as a sheep dog, BUT it has its limits. Lead Acid Batteries basically love work. The more you start something with them and then charge them up, the more they like it. They do, however, eventually die. If you leave them idle for a long time or leave them discharged without recharging, you can easily kill them.

The voltage difference between a good battery and a dead (or "dodgy") one is less than a volt! If you have a battery with a terminal voltage of 11.8V or less, it is probably history. You can try to recharge it, maybe add some INOX (page 308), but, really you won't be able to trust it.

Get a new battery.

6V & 12V, 8A Heavy Duty with Trickle Charge

This charger is suitable for both 6 and 12 volt car, boat, motorcycle and lawnmower batteries. Featuring 4-stage LED charge indicators, the charger can be switched between trickle or heavy duty charge rates and is recommended for casual, domestic charging tasks. The unit is housed inside a tough plastic case with carry handle, is double insulated and features overload and reverse battery protection. The battery leads are terminated to heavy duty alligator clips on a 1 metre length of cable.

- Complies with Australian Electrical Safety Regulations.



		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V	8A	MB-3522	\$74.95	\$67.45	\$59.95

12V 10A Intelligent Switchmode 5 Stage Charger

A robust 12V battery charger packed with useful features to safely charge and maintain the life of your batteries. The front control panel allows you to control the battery type being charged (see below for supported types), the desired charge rate, the display mode (current, battery voltage, charge percentage). It will also indicate if there is a battery fault or if the polarity is reversed in which case the charging will immediately stop to protect the battery. Features positive/negative fly leads with clips that are neatly tucked away into a compartment at the rear of the unit.

- Short circuit protection
- Voltage compensation
- Overheat protection
- Polarity reversal protection
- Fan cooled
- Faulty battery indicator
- Charging current: 2A (Low rate), 6A (Normal rate), 10A (High rate)
- Input voltage: 220VAC-240VAC
- Supported battery types: WET/Flooded, GEL, AGM, MF, VRLA rechargeable batteries
- Dimensions: 230(H) x 170(W) x 140(D)mm



		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	10A	MB-3625	\$139.00	\$124.95	\$110.95

TECH TALK

There are 5 stages of operation:

1. Soft Start - tests the battery condition. A severely discharged battery needs charging with a reduced current until the voltage reaches 12V.
2. Bulk charging - delivers most of the charge (60-80%). The charger delivers maximum current until the terminal voltage has risen to the set level.
3. Absorption - completes the charging up to nearly 100% at a constant voltage. The current tapers off as the battery reaches full capacity.
4. Float - maintenance charging at constant voltage, keeping battery at 100% charge.
5. Pulse - long term maintenance charging. Cycles the battery between 80 and 100% charge for maximum battery life. The battery receives a pulse, starting a new charge cycle, when voltage drops to set limit. The charger can be connected for months keeping the batteries fresh.

6V/12V/24V 15A Intelligent Battery Charger

An intelligent battery charger suitable for flooded and gel lead acid batteries including deep cycle batteries at 6V, 12V or 24V. The microprocessor controlled unit provides 4 stages of charging, Soft Start, Bulk Charge, Absorption and Float which assists in the batteries life expectancy and performance. An auto detection feature provides a user friendly experience, which can be pre-programmed or manually set for greater control. Should a blackout occur or AC input power be lost during a charging operation the memory function will resume charging once power is re-established. Other features include temperature/voltage compensation, reverse polarity/short circuit protection and a battery status indicator. Ideal for cars, motorcycles, caravans and boats with battery capacities between 20-200Ah. It's also ultra-portable with a handy storage pocket in the back for the leads.

- Memory function
- Temperature controlled fan
- LED battery status display
- Temperature and voltage compensation

- Protection:
- Anti spark
 - Short circuit
 - Reverse polarity
 - Over heating/current/voltage



Specifications	MB-3623
Input	220 - 240VAC, 2.5A
Output	15A @ 12V
	7A @ 12V/24V
	2A @ 6V/12V/24V
Dimensions	230(H) x 170(W) x 140(D)mm

		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V/24V	15A	MB-3623	\$159.00	\$142.95	\$126.95

SEALED LEAD ACID BATTERY COMPARISON GUIDE

Sealed lead acid batteries are used generally for two purposes. Standby applications such as an emergency power source for safety lights and for security and burglar alarm systems, computer peripheral terminals etc. and cyclic applications as a portable power source for MP3 players, DVRs, toys, lights and use with solar panels for remote power.

The features of these batteries include:

- Leak proof construction
- Usable/rechargeable in any position
- Wide operating temperature range
- Designed not to discharge hydrogen into the atmosphere.
- Long service life
- Deep discharge recovery
- High discharge rate capability

Charge voltage for 12 volt is 13.5 to 14.7 volts and for 6 volt is 6.8 to 7.4V volts. The charging time must be doubled if the charge current is halved.



	Capacity	20hr rate	10hr rate	5hr rate	1hr rate	Initial Charge Current	Cycle Voltage	Standby Voltage	Page
SB-2495	6V 1.3Ah	65mA (1.3Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	7.20-7.50V	6.75-6.90V	243
SB-2496	6V 4Ah	210mA (4.2Ah)	378mA (3.7Ah)	672mA (3.36Ah)	2.25A (2.25Ah)	<1.2A	7.20-7.50V	6.75-6.90V	243
SB-2498	6V 5Ah	250mA (5.0Ah)	450mA (4.5Ah)	800mA (4.0Ah)	3.0A (3.0Ah)	<1.5A	7.20-7.50V	6.75-6.90V	243
SB-2497	6V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	7.20-7.50V	6.75-6.90V	243
SB-2480	12V 1.3Ah	65mA (1.30Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	14.4-15.0V	13.5-13.8V	243
SB-2482	12V 2.2Ah	110mA (2.2Ah)	198mA (1.98Ah)	352mA (1.76Ah)	1.32A (1.32Ah)	<0.66A	14.4-15.0V	13.5-13.8V	243
SB-2484	12V 4.5Ah	200mA (4.5Ah)	380mA (3.8Ah)	680mA (3.4Ah)	2.40A (2.4Ah)	<1.2A	14.4-15.0V	13.5-13.8V	243
SB-2485	12V 6.5Ah	300mA (6.5Ah)	486mA (4.86Ah)	864mA (4.32Ah)	3.24A (3.24Ah)	<1.62A	14.4-15.0V	13.5 - 13.9V	243
SB-2486	12V 7.2Ah	360mA (7.2Ah)	650mA (6.5Ah)	1.15A (5.75Ah)	4.32A (4.32Ah)	<2.1A	14.4-15.0V	13.5-13.8V	243
SB-2487	12V 9Ah	450mA (9Ah)	810mA (8.1Ah)	1.44A (7.2Ah)	5.4A (5.4Ah)	<2.7A	14.4-15.0V	13.5 - 13.9V	243
SB-2489	12V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	14.4-15.0V	13.5 - 13.9V	243
SB-2490	12V 18Ah	900mA (18Ah)	1.72A (17.2Ah)	3.05A (15.2Ah)	10.8A (10.8Ah)	<3.4A	14.4-15.0V	13.5 - 13.9V	243
SB-1698	12V 26Ah	1.3A (26Ah)	2.11A (21.1Ah)	3.74A (18.7Ah)	14A (14Ah)	<7.8A	14.4-15.0V	13.5 - 13.9V	244
SB-1699	12V 38Ah	1.94A (38.8Ah)	3.8A (38Ah)	6.16A (30.8Ah)	22.3A (22.3Ah)	<12A	14.4-15.0V	13.5 - 13.9V	244
SB-1695	12V 100Ah	5.1A (102Ah)	10A (100Ah)	16.2A (81Ah)	58.5A (58.5Ah)	<30A	14.4-15V	13.5 - 13.8V	244

Note 1: Current is limited by spring terminal type

6 VOLT SLA BATTERIES

1.3 Amp Hour - 6 Volt

- Size: 97 (L) x 51 (D) x 21(H)mm
- Spare SLA battery
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2495	\$12.95	\$11.35	\$10.35



4 Amp Hour - 6 Volt

- See table for specifications
- Size: 70(L) x 47(D) x 106(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2496	\$14.95	\$13.35	\$11.70



5.0 Amp Hour 6 Volt Lantern Battery

- This 6 volt 5Ah rechargeable sealed lead acid battery suits those popular Dolphin style torches.
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2498	\$24.95	\$22.35	\$19.70



12 Amp Hour 6 Volt

- Size: 151(L) x 51(D) x 100(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2497	\$32.95	\$29.65	\$26.35



12 VOLT SLA BATTERIES

1.3 Amp Hour 12 Volt

- Size: 97(L) x 43(D) x 57(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2480	\$19.95	\$17.70	\$15.70



2.2 Amp Hour 12 Volt

- Size: 178(L) x 34(D) x 66(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2482	\$23.95	\$21.55	\$19.15



4.5 Amp Hour 12 Volt

- Size: 90(L) x 70(D) x 106(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2484	\$28.95	\$26.05	\$23.15



6.5 Amp Hour 12 Volt

- Size: 150(L) x 65(W) x 93(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2485	\$29.95	\$26.95	\$23.95



7.2 Amp Hour 12 Volt

- Size: 151(L) x 65(D) x 93(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2486	\$34.95	\$31.45	\$27.95



9.0 Amp Hour 12 Volt

- Size: 150(L) x 65(W) x 93(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2487	\$44.95	\$40.45	\$35.95



12.0 Amp Hour 12 Volt

- Size: 150(L) x 100(W) x 93(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2489	\$56.95	\$50.95	\$45.45



18 Amp Hour 12 Volt

- Size: 181(L) x 77(D) x 167(H)mm
- See table for specifications

Cat.	Qty 1+	Qty 4+	Qty 10+
SB-2490	\$79.95	\$71.95	\$63.95



SLA Battery Carry Bag

Designed for carrying a large sealed lead-acid battery. Suits sealed lead-acid batteries 12V 7.2Ah (SB-2486) or 6V 12Ah (SB-2497) - (and Panasonic equivalents) approx. max. size 151 x 65 x 101mm. Features fused cigarette-lighter socket (10A), zip-up cover, and internal fold-away protective flap.

- Battery can be medium/slow charged INSIDE THE BAG!

Cat.	Qty 1+	Qty 4+	Qty 10+
HB-6360	\$19.95	\$17.95	\$15.95



See page 247
for Hold Down
Hardware

POWER & SMART ENERGY HIGH CAPACITY LEAD ACID BATTERIES

DEEP-CYCLE GEL CELL BATTERIES

Deep Cycle Batteries



These genuine deep-cycle batteries add to our already substantial range of batteries. As with all gel cells, they can be operated and charged in any position, are leakproof and completely sealed. Gel batteries are ideal for solar power, camping, 4WD, auxiliary applications and anywhere deep discharge and recovery is required. Three sizes available:



Specifications	SB-1698	SB-1699	SB-1695
Terminal voltage	12V	12V	12V
Nominal capacity	20 hour rate 26Ah	20 hour rate 38.8Ah	20 hour rate 100Ah
Capacity at 0°C	85%	86%	86%
Self discharge	9% after 3 months (residual capacity 91%)	9% after 3 months (residual capacity 91%)	9% after 3 months (residual capacity 91%)
Dimensions W x D x H mm	165 x 172 x 110	197 x 165 x 170	330 x 173 x 223
Weight	8.35kg	13kg	31.5kg
Special Order	NO	NO	YES

Check with our call centre for freight rates if you are a long way from our warehouse. (SYDNEY)

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 26Ah	SB-1698	\$149.00	\$133.95	\$118.95
12V 38Ah	SB-1699	\$239.00	\$214.95	\$190.95
12V 100Ah	SB-1695	\$519.00	\$459.00	\$409.00

TECH TALK

HIGH CURRENT CHARGERS

Higher current chargers steadily recharge larger lead acid batteries such as car, marine or high capacity deep cycle batteries. Available in simple models which need to be monitored manually ie. disconnected when the battery is fully charged, and automated models which monitor battery condition. Automated models have higher charge rates and improve battery life as their control systems prevent overcharging. Jaycar does not stock simple chargers, only automatic types.

12V 150Ah Sleek AGM Deep Cycle Battery

This high performance deep cycle AGM battery offers an excellent power storage solution to those with minimal space. A high energy density and top grade materials allow such a high capacity of 150Ah to be packed into such a small footprint - just 123 x 556mm, suitable to fit into a standard 23" rack. Front terminal access makes battery connections neat and simple, and the durable carry handles allow for easier handling and inspection. Designed to perform in harsh tropical conditions, and with a superior high rate discharge performance and higher cycle service life, this battery is perfect for a wide array of applications including remote solar systems, caravan and RV, motor home, and marine. With a float voltage of 13.5V, this AGM battery is perfectly suited to caravans to make the most of charging off the engine alternator. See our website for a full specification datasheet.



- Small footprint to suit installations in tight areas such as marine, caravans or motor homes
- Design Float life of 12+ years in accordance with Eurobat classification of long life battery
- Suitable for standard 23" rack
- Advanced AGM (absorbed glass matt) separator offering longer service life and superior high rate discharge performance
- Threaded post copper insert terminals offering high conductivity
- Fire retardant container and cover (UL40 - V0)
- Compliant to IEC 60896-21/22:2004 and UL approved



Note: Not stocked at stores but can be ordered.

Specifications	SB-1822
Voltage	12V
Float voltage	13.5V
Boost voltage	13.8V
Capacity	150Ah (10hr rate), 165Ah (20hr rate)
Self-discharge	< 1% per week
Shelf life without re-charge	Up to 6 months
Operating temperature	-40°C to 60°C
Designs float life	12+ years at 27 °C
Design cycle life	1800+ cycles @20%DOD, 900+ cycles @50%DOD, 500+ cycles @80%DOD
Dimensions	123(W) x 556(D) x 296(H)mm
Weight	52kg

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	12VDC 150Ah	SB-1822	\$839.00	\$749.00	\$669.00

POWERSTACK BATTERY BANKS

Powerstack High Performance VRLA Battery Banks with Racking



Making a substantial investment in a large renewable energy or remote power system means you should have the best battery technology available. Able to withstand deep discharge to 0% capacity for 1000 cycles, the Powerstack battery banks are the last word in genuine deep-cycle technology ensuring long service life. The modular, stackable rack design enables easy installation and offers complete flexibility for future system expansion. This racking is something that you just don't get with other deep cycle batteries, and makes such a difference to ease of use and flexibility

of installation. This significantly reduces your installation costs as you don't have to go out and make your own rack for your battery bank - that's all done for you with the Powerstack.

Each Powerstack comes fully loaded with six 2V deep cycle valve regulated lead acid (VRLA) cells, and includes interconnecting busbars to connect up each cell to make the 12V bank. The construction of each cell is flame retardant copolymer casing with lead coated copper conductor terminals, the racking is steel painted in acid resistant paint, and all parts can be recycled. Suitable for mining, defence, UPS backup, transmission, telephony as well as high end alternative energy systems and remote area power systems.

Due to the size and weight of these very specialised units they will only be available for dispatch direct from our central warehouse in Sydney and Auckland. Freight will be additional - contact us for a quotation.

See our website for full specifications and downloadable datasheets.

- Modular stackable design
- Cycle life: 4000 cycles at 20% discharge, 1000 cycles at 100% discharge
- Self discharge: Less than 1% per week
- Design life: 20 years

Note: Not stocked at stores but can be ordered.

↑	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	12V 600Ah	SB-1800	\$2999.00	\$2699.00	\$2399.00
	12V 1350Ah	SB-1802	\$7229.00	\$6499.00	\$5779.00



Specifications	SB-1800	SB-1802
Type	Valve Regulated Lead Acid deep-cycle battery	Valve Regulated Lead Acid deep-cycle battery
Rating	12V 600Ah	12V 1350Ah
Ah efficiency	>90%	>90%
Charging voltage	2.23 - 2.3V per cell	2.23 - 2.3V per cell
Charging current	60 - 120A	135 - 270A
Bank dimensions	706(W) x 477(H) x 550(D)mm	706(W) x 802(H) x 550(D)mm
Bank weight	260kg	530kg

BATTERY DISCONNECTS & ACCESSORIES

Battery Isolation Switches

High current rated battery isolation switches for high power applications. Often fitted to boats, trucks, motor homes and other battery based power systems to allow for quick and easy electrical isolation of the battery for protection against discharge, fire and other safety risks. Each switch features high quality construction with large bolt-down terminals for electrical connection.

HIGH QUALITY 120A

- Large removable key actuator
- Continuous rating: 120A @ 12V
- Surge rating: 500A, 60mm diameter mounting plate

PROFESSIONAL 500A

The switch handle features a tight and secure spring loaded actuation, locking the switch into the ON position and requiring you to pull the handle out to turn it off, avoiding accidental battery isolation. Features heavy gauge M12 brass bolt terminals, cast metal body for extra strength and durability, and is also supplied with a right angle mounting bracket.

- Continuous rating (6-48VDC): 500A
- Max rating (6-48VDC): 2000A (10 sec)
- Dimensions: 70(D) x 100(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 120A	SF-2245	\$17.95	\$15.95	\$14.35
12V 500A	SF-2247	\$59.95	\$53.95	\$47.90

Battery Switches with Enclosure

Simple 2 and 4 position battery switches for controlling battery power on your boat, caravan, or other high current battery system. The 2-position version is a simple on/off turn switch. The 4-position model allows you to switch power on for 2 batteries at a time, or for each individually. Ideal if you have one battery for starting the engine and another for auxiliary electrical equipment.

- Durable design, with large indented grips that won't slip under wet hands.



Specifications	SF-2246	SF-2248
Continuous rating	275A	175A
Intermittent rating	455A	300A
Operation	On/Off	Battery 1 on, Battery 2 on, Both batteries on, both batteries off
Operating range	8-50VDC	6-32VDC
Stud size	2x10mm	2x10mm
Dimensions	75(H) x 72(W) x 72(L)mm	134(L) x 134(W) x 71(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Position	SF-2246	\$39.95	\$35.95	\$31.95
4 Position	SF-2248	\$49.95	\$44.95	\$39.95

120A 12/24VDC Programmable Dual Battery Isolator

This 120A 12/24VDC Programmable Dual Battery Isolator can be fine tuned to meet your vehicle's specific application. Often the alternator, main battery, house battery and load change with time, so this device allows you to fine tune key voltages and delay time set points, and constantly monitors each battery to ensure the optimum charging current.

The reliable and efficient MOSFET switching circuitry has very little voltage loss, which results in much less generated heat compared to diode based isolators.

Features:

- Ignition Control
 - N.O & N.C contacts
 - Manual Override mode
 - Programmable parameters:
- Connect Voltage: 9.2 - 16VDC/18.4 - 32VDC
Isolate Voltage: 9 - 15.8VDC/18 - 31.6VDC
Alert Voltage: 9 - 15.9VDC/18 - 31.8VDC
Connect/Isolate/Alert Delay: 1 - 250 seconds

Specifications	MB-3688
Operating Voltage	9 - 17VDC/18 - 34VDC
Continuous Contact Current	120Amp
Dimensions	90(L) x 90(W) x 85(H)mm
Weight	0.6kg

	Cat.	Qty 1+	Qty 4+	Qty 10+
12/24V 120A	MB-3688	\$209.00	\$187.95	\$166.95



12V 140A Dual Battery Isolator Kit with Wiring

Allows two batteries to be charged from your engine alternator at the same time. When your engine is on and the start battery is sufficiently charged the isolator kit will begin charging the second (auxiliary) battery simultaneously. When the voltage of the start battery drops (i.e. the engine is stopped) the isolator kit disengages from charging the auxiliary battery. This isolates the start battery and eliminates the possibility of draining it, ensuring that you always have enough charge to start your engine, and also protects sensitive electronic equipment powered from the auxiliary battery from harmful engine start-up spikes. Suitable for 12VDC Marine, 4WD, caravan and solar applications. Dual Battery Isolator available as a standalone unit - see MB-3685

- Emergency override feature
- LED status indicator

Kit Includes:

- 1 x Dual Battery Isolator with mounting screws
- 1 x 6 metre length of 10mm square red cable terminated at both ends
- 1 x 600mm black earth cable
- 2 x Positive Marine battery terminals
- 1 x Negative Marine battery terminal
- 1 x SC25-10 Copper crimp lug
- 2 x 16-8 Copper crimp lugs
- 2 x Red heat shrink
- 1 x Insulated blue ring terminal
- 6 x 200mm cable ties



Specifications	Both
Continuous rating	140A
Intermittent rating	170A
Voltage rating	12VDC (max 15VDC)
Cut in voltage	13.7VDC
Cut off voltage	12.8V
Isolator dimensions	67(L) x 67(W) x 53(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
VSR with Wiring Kit	MB-3686	\$159.00	\$142.95	\$126.95
VSR without Wiring Kit	MB-3685	\$69.95	\$62.95	\$55.95

BATTERY MONITORING

Battery Discharge Protector

Protects your car battery from total discharge by switching off appliances such as fridges and TV sets before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4 to 13.3 VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.



Specifications	AA-0262
Operating voltage	12VDC
Max. switching current	20A
Interrupting voltage	10.4 - 13.3VDC
Resetting voltage	approx. 0.8V (+/-0.3V) above interrupt voltage
Current consumption	< 0.7mA when OFF; < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0262	\$44.95	\$40.45	\$35.95



Workbench sent to us by: Justin Jaycar Store: Thomastown

Planned it on sketchup for about 2 months to make sure I had it right and then built my cave, my retreat.

Building, destroying, soldering and relaxing all happens here.

I love it!

For more details, visit:
www.jaycar.com.au/workbench

POWER & SMART ENERGY

BATTERY MONITORING & MANAGEMENT

BATTERY MONITORING (CONTINUED)

Digital DC Power Meters

An ideal addition to any low voltage DC system this digital power meter features real time display of the voltage, current draw, and power consumption. Once running it also stores minimum and maximum voltage, current, and power, together with cumulative amp hours and watt hours consumed by the connected equipment. Suitable for DC systems from 5 to 60 volts and available in two versions for inline connection or remote connection with a separate current shunt. Both meters are mountable using the included snap-in bracket or magnetically on any ferrous surface and can be connected to a PC using the MS-6174 USB data adaptor (sold separately).

- Dimensions: 45(W) x 41(L) x 23(D)mm
- Operating current: 12mA peak
- Measurement Specifications:
- Voltage Range: 5-60VDC (0-60VDC with external DC power source)
- Wattage Range: 0-12,000W

Logging Specifications:

- Cycle Time: 3 minutes
- Maximum Amp Hours: 99,999Ah
- Maximum Kilowatt Hours: 9,999.9kWh
- Maximum Cumulative Log Time: 75 hours
- Data download: Stored data can be transferred to PC using MS-6174 data adaptor (sold separately)



DIGITAL DC POWER METER WITH INTERNAL SHUNT

- Continuous Current Range: 0-20A
- Peak Current: 30A for 30 minutes

MS-6170

DIGITAL DC POWER METER TO SUIT 50MV EXTERNAL SHUNT

- Current Range: 0-200A depending on shunt
- Suitable DC shunts: QP-5412 50A 50mV, QP-5415 100A 50mV, QP-5417 200A 50mV

MS-6172

USB DATA ADAPTOR FOR DC POWER METERS

Enhance the data collection of the MS-6170 or MS-6172 DC power meter by connecting to your PC with this USB data adaptor. The included software allows you to access live data and download stored data from the power meter memory. Data is graphed to show power usage over time and can then be exported for further analysis and logging over long periods. Pack includes data interface module, data cable, USB cable, and PC software.



- Data module dimensions: 45(L) x 35(W) x 18(H)mm

MS-6174

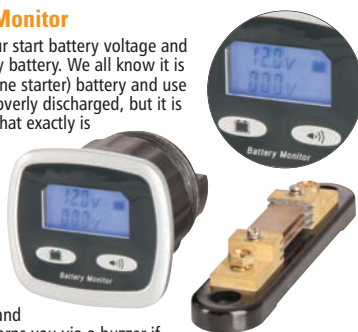
↑	Current Range	Cat.	Qty 1+	Qty 4+	Qty 10+
	0 - 20A	MS-6170	\$89.95	\$80.95	\$71.95
	0 - 200A	MS-6172	\$89.95	\$80.95	\$71.95
	USB Data Adaptor	MS-6174	\$99.95	\$89.95	\$79.95

Dual Battery Volt/Current Monitor

This unit enables you to monitor your start battery voltage and total battery activity of your auxiliary battery. We all know it is essential to monitor your main (engine starter) battery and use an isolator to prevent it from being overly discharged, but it is also extremely important to know what exactly is happening with your "house power" system. This is valid for boats, 4WDs, caravans/RVs etc., especially when running inverters and refrigeration. This fantastic dual battery monitor serves that purpose by giving you the voltage of your start battery and house battery, as well as the current (amps) flow on your house battery - both charging and discharging. To top it off, the unit warns you via a buzzer if house battery falls below 11.5V (or over 15.5V). The display unit easily fits timber bulkheads up to 27mm thick, or sheet metal dashboards, and a 250A current shunt (75mV) is supplied which should suffice for all but the biggest installations.

- This product may save you a fortune from replacing damaged batteries.

Specifications	MS-6176
Front panel dimensions	72(W) x 65(H)mm
Mounting hold	2" or 52mm
Shunt dimensions	135(L) x 30(W) x 25(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-6176	\$179.00	\$160.95	\$142.95



WARRANTY

RELATED PRODUCTS

FROM
\$1.40 per metre
WH-3057



2 CORE DC POWER CABLE P203

FROM
\$8.95
TH-1828



CRIMPING TOOLS P50

FROM
\$12.95
NA-1200



HAND PROTECTION LOTION P49

FROM
\$84.95
QP-2261



BATTERY TESTER P486

BATTERY TERMINALS

Remote Battery Terminals - 250A

This remote battery jumper terminal provides convenient access to the vehicle battery for charging or jump starting.

- Suitable for cars, boats, trucks, caravans and other off-road equipment
- Aluminium panel provides easy mounting
- Includes one positive and one negative post
- Posts allow remote access to concealed battery for jump starting or charging
- Protective red & black rubber covers
- Solid brass studs
- 250A Maximum current rating
- Terminal depth: 65mm
- Mounting plate dimensions: 130(L) x 50(W) x 20(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
250A	HM-3075	\$49.95	\$44.90	\$39.90

Universal Brass Battery Terminals



HC-4034

HC-4030

HC-4038

These heavy duty, solderless range of Marine grade brass battery terminals have got you connected. With five options available from universal saddle, lug bolt style, side barrel, end entry and not forgetting the built in isolating switch perfect for isolating your battery to prevent battery drain when not in use.

Sold in Pairs, POS - NEG, HC-4038 isolation type sold singular (Negative post only)

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	Saddle	Pair HC-4030	\$9.95	\$8.75	\$7.75
	Lug Bolt Style	Pair HC-4034	\$9.95	\$8.75	\$7.75
	Isolating (Negative Post)	Each HC-4038	\$9.95	\$8.75	\$7.75

Multi-Connect Battery Terminal - Red

This Multi-Connection Battery Terminal can be used to terminate up to 4 electronic devices. It can also be used separately as a bus-bar that connects to multiple devices. Perfect for simplify the wiring in the car, surveillance or security system and other 12V applications where multiple accessory wiring is needed.

- Terminates up to 4 electronic devices
- Red colour for positive connections
- Does not need screws
- Spade terminals included
- Dimensions: 75(L) x 40(W) x 20(H)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
12V	HM-3089	\$9.95	\$8.75	\$7.75

TECH TALK

BATTERY MAINTENANCE

Periodic visual inspection of the battery is recommended.

If the battery is stored for over six months, it is recommended to charge and discharge the battery several times to recover the battery capacity, failure to do so may result in a loss of capacity and shorter battery life.

Bear in mind that self-discharge has to be taken into consideration when storing a charged battery. The remaining battery capacity should be at least 50% after a month of storage at room temperature for a fully charged battery. High storage temperatures will accelerate the self-discharge, and reduce the remaining capacity.

FUSED BATTERY TERMINALS

Battery Terminal Fuses

These terminal fuses provide easy and economical circuit protection. They are ideal to use as circuit protection for your DC electrical system or battery banks. They are available in 3 current ratings from 50, 100, and 200amps. They feature a clear transparent housing to provide visual indication of blown condition.

Specifications	All
Rating	58VDC
Material	Ceramic body
Mounting hole	8.3mm
Dimensions	24(H) x 20(W) x 11(D)mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
50A	SF-4180	\$5.95	\$5.50	\$4.75
100A	SF-4182	\$5.95	\$5.50	\$4.75
200A	SF-4184	\$5.95	\$5.50	\$4.75

BATTERY BOXES, TRAYS & CLAMPS

Battery Boxes



Note: Battery not included

Protect your batteries with these sturdy boxes. Perfect for mounting in your boat, trailer or caravan. Includes mounting clamps and lid strap to secure the box properly in place.

Two models available:

HB-8100 - Battery box to suit 40Ah SLA batteries
• Dimensions: External: 365(L) x 270(W) x 265(H)mm
Internal: 260(L) x 180(W) x 200(H)mm

HB-8102 - Battery box to suit 100Ah SLA batteries
• Dimensions: External: 460(L) x 265(W) x 260(H)mm
Internal: 380(L) x 200(H) x 205(W)mm

	External Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
	365 x 270 x 265mm	HB-8100	\$29.95	\$26.95	\$23.95
	460 x 265 x 260mm	HB-8102	\$39.95	\$35.95	\$31.95

Battery Box with Power Accessories

No longer do you have to take a bird's nest of wiring and connections for your deep cycle battery when you go camping; this extremely handy battery box has all the common connections you would typically need, along with a convenient carry handle. Just fit your 100Ah deep cycle battery into the box, connect up the positive and negative wires, and you are ready to go. Features an LED voltmeter to help monitor battery level, two high current marine grade cigarette power sockets, and high current bolt terminals to connect your higher current loads such as an inverter. Over current protection included for the cigarette sockets.

• Dimensions: Internal: 355 x 220 x 290mm



	External Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
	420 x 240 x 310mm	HB-8500	\$109.00	\$97.95	\$86.95

Heavy Duty Steel Battery Trays

These battery trays are pressed out of 1.2mm mild steel & vinyl coated to protect from acids, oils etc. They feature cruciform slots in the base to facilitate existing mounting holes in a truck or car chassis, as well as slots to allow battery hold-down rods. 2 sizes available:

BATTERY SECURING TRAY - SMALL

Dimensions: 280(L) x 200(W) x 45(H)mm
HB-8104

BATTERY SECURING TRAY - LARGE

Dimensions: 340(L) x 200(W) x 45(H)mm
HB-8106



HB-8104

Note: Not recommended for marine salt water use.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	HB-8104	\$12.95	\$11.35	\$10.35
Large	HB-8106	\$13.95	\$12.35	\$10.95

Adjustable Universal Battery Hold Down Clamp

Universal battery clamp which adjusts to suit batteries ranging from 135-190mm width and 150-230mm height.

- Metal construction with wing nut adjustments



See page 246
for Battery Terminals

Note: Battery not included

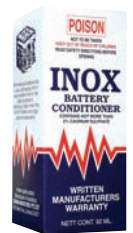
	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC-4039	\$9.95	\$8.75	\$7.75

BATTERY CONDITIONERS

Lead-Acid Battery Conditioner

Removes or reduces sulphation which kills batteries. When wet-cell lead-acid batteries are allowed to sit around they will sulphate up in as short a time as 6 months. The sulphate builds up on the plates and separators. This product basically dissolves the sulphation. The product is so good that the manufacturer will extend the warranty on a new battery by a year if used when the battery is new.

- One bottle will do up to an N70Z size batteries (4WD, boat, truck etc).



	Cat.	Qty 1+	Qty 4+	Qty 10+
92ml	NA-1420	\$10.95	\$9.85	\$8.75

SOLAR WATER PUMPS

Run your outdoor aquarium, garden pond or water feature from the sun, eliminating the need for wiring or the safety aspects of electricity near water. Each comes with its own solar panel, cable and pump assembly ready to go and has some electronic smarts built in to regulate the delivery of power during cloudy periods.

0.9W SOLAR WATER PUMP

Specifications	ZM-9200
Operating Voltage	7V
Power Consumption	0.9W
Flow Rate	140 litres/hour
Outlet Size	8mm
Cable Length	2m
Dimensions	
Solar Panel	188(L) x 155(W) x 25(H)mm
Pump Assembly	42(L) x 39(W) x 28(H)mm



Pumps & Solar Panels not to scale

2.4W SOLAR WATER PUMP

Specifications	ZM-9202
Operating Voltage	12V
Power Consumption	2.4W
Flow Rate	200 litres/hour
Outlet Size	8mm
Cable Length	2m
Dimensions	
Solar Panel	308(L) x 166(W) x 25(H)mm
Pump Assembly	42(L) x 39(W) x 28(H)mm



Pumps & Solar Panels not to scale



	Cat.	Qty 1+	Qty 3+	Qty 6+
0.9W	ZM-9200	\$54.95	\$49.45	\$43.95
2.4W	ZM-9202	\$99.95	\$89.95	\$79.95

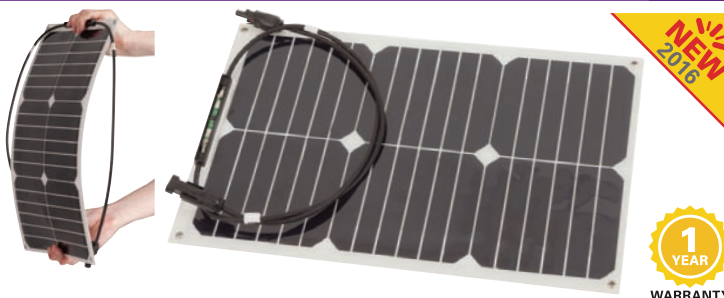
FLEXIBLE SOLAR PANELS

Semi-Flexible 12V Solar Panels

These monocrystalline solar panels can be easily mounted on the curved surfaces of your boat deck or caravan to charge on-board batteries. The flexibility of the solar cells is limited by the plastic base but will easily bend on the long axis to accommodate a yacht deck or RV roof. It is slightly flexible on the short axis. Best of all, these units do not have a heavy rigid frame and are therefore light, and easy to stow away when you travel.

The solar cells are implanted in very distinctive and highly resilient polymers that give durability. The flexible non-glass area of the solar panel is tough enough to walk on. We recommend that you add a solar charge regulator to charge the batteries more effectively.

- Maximum recommended bending degree: 20°



Specifications	ZM-9149	ZM-9150	ZM-9151	ZM-9152	ZM-9153	ZM-9154	ZM-9156
Max Power: (Pmax)	15W	18W	30W	40W	80W	100W	180W
Rated voltage	12V	12V	12V	12V	12V	12V	12V
Open Circuit Voltage (Voc)	23.7V	23.70V	23.7V	23.60V	18.5V	21.70V	20.30V
Short Circuit Current (Isc)	0.82A	1.03A	1.62A	2.05A	5.58A	6.10A	11.57A
Max Power Voltage (Vmp)	19.8V	19.4V	19.8V	19.50V	15.4V	17.70V	16.80V
Max Power Current (Imp)	0.76A	0.93A	1.51A	2.33A	5.19A	5.70A	10.71A
Cable length	2 x 850mm	2 x 900mm	2 x 850mm	2 x 900mm	2 x 850mm	2 x 900mm	2 x 900mm
Dimensions	485(L) x 310(W) x 3(D)mm	434(L) x 277(W) x 3(D)mm	860(L) x 310(W) x 3(D)mm	535(L) x 415(W) x 3(D)mm	975(L) x 560(W) x 3(D)mm	1050(L) x 540(W) x 3(D)mm	1305(L) x 796(W) x 3(D)mm

TECH TALK!

APPLICATION GUIDE FOR SEMI-FLEXIBLE SOLAR PANELS

Our semi-flexible solar panels are an excellent option for boats, campervans, caravans or camping power setups, as they are a lot lighter and less bulky than their standard solar panel equivalent (only 3mm thick versus 27-35mm thick). Their main structure is a sheet of aluminium alloy material that is flexible, allowing you to bend the panel slightly to follow the curves of your mounting surface for a slimline installation.

Check out our
Folding Solar
Panels on
page 469



↑ Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	15W	0.76A NEW	ZM-9149	\$79.95	\$75.95	\$71.95
12V	18W	0.93A	ZM-9150	\$84.95	\$79.95	\$75.95
12V	30W	1.51A NEW	ZM-9151	\$139.00	\$129.00	\$119.00
12V	40W	2.33A	ZM-9152	\$149.00	\$139.00	\$129.00
12V	80W	5.19A NEW	ZM-9153	\$329.00	\$309.00	\$289.00
12V	100W	5.70A	ZM-9154	\$349.00	\$329.00	\$301.00
12V	180W	10.71A	ZM-9156	\$679.00	\$639.00	\$599.00

SOLAR PANELS - AMORPHOUS

In the past, amorphous solar panels have been labelled as the cheap alternative for an installation where long service life is not important - however that is about to change. Recent years have seen vast improvements in thin-film solar technology, especially with amorphous silicon based solar panels, and we are now bringing those improvements to you with our updated range of amorphous solar panels. Whilst these panels might look the same as any other amorphous panel, the difference lies within the visual exterior. On top of the features our amorphous panels have always had, they now boast dual-junction amorphous silicon with laser edged isolation construction. What does that

mean? It means that along with a small improvement in output efficiency they also have big improvements in the life expectancy of the panel - they will maintain above 80% of their original rated power for 20 years. That's about as good as a polycrystalline or monocrystalline solar panel.

Beware of cheaper amorphous panels which don't offer these features, as their performance will surely degrade much faster and they will usually perform below their rated specification.

SO WHY WOULD YOU CHOOSE AMORPHOUS PANELS?

Solar Panel Type	Size per Watt	Output under cloudy conditions	Power Decrease due to Heat
Amorphous	Bigger (2-3 times)	Yes - and for longer hours each day	-0.19% / °C (less power decrease)
Crystalline	Smaller	No - output drops significantly in cloudy conditions	-0.47% / °C

Includes protective
plastic corners and
battery clips

Check out our
Recreational
Solar Packages
on pages 470
in the Auto -
Outdoors Section



WHAT'S THE CATCH?

If you think that amorphous is too good to be true take a close look at their size. The big downside to amorphous is that to get the same power as poly or monocrystalline you need 2-3 times the surface area. This may or may not be a problem. On a yacht, yes, but on a farm probably no.

1 WATT TO 4 WATT PANELS

Specification	ZM-9020	ZM-9024	ZM-9026
Maximum power	1W	2W	4W
Rated voltage	6V	12V	12V
Voltage (@ Pmax)	7V	17.5V	17.5V
Current (@Pmax)	143mA	115mA	286mA
Short circuit current	150mA	150mA	450mA
Open circuit voltage	11V	21V	21V
Dimensions	162 x 162 x 22mm	160 x 313 x 22mm	330 x 330 x 22mm
Weight	0.65kg	1.0kg	2.32kg
Warranty	5 year	5 year	5 year



↑ Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
6V	1W	143mA	ZM-9020	\$19.95	\$18.95	\$17.95
12V	2W	115mA	ZM-9024	\$29.95	\$28.45	\$26.95
12V	4W	286mA	ZM-9026	\$49.95	\$47.45	\$44.90



SOLAR PANELS - MONOCRYSTALLINE - 5 WATT TO 200 WATT

These quality Powertech monocrystalline solar panels offer you the same robust construction and performance as the leading brand names, whilst also offering a nice cost saving. Despite being manufactured in China, they are definitely suitable for harsh Australian conditions.

Our Powertech solar panels are among the best to come out of Asia, and we are not alone in our beliefs! Our supplier has been producing solar panels for the large European market for several years, including manufacturing the panels for a 100kW solar plant in Greece & a 300kW solar plant in Spain.

When we visited their factory we were amazed at the high level of quality control. Each individual cell is tested and measured before assembling the panel, and then each and every panel is tested and measured to IEC standards before shipping them out.

5 WATT TO 40 WATT PANELS

Cat.	ZM-9091	ZM-9093	ZM-9094	ZM-9095
Maximum power	5W	10W	20W	40W
Rated voltage	12V	12V	12V	12V
Open circuit voltage	21V	21.5V	21.5V	21.4V
Short circuit current	380mA	680mA	1.3A	2.56A
Voltage at max power	16.8V	17V	17.2V	17.1V
Current at max power	300mA	590mA	1.17A	2.34A
Dimensions	295 x 255 x 23mm	396 x 289 x 23mm	639 x 294 x 23mm	545 x 645 x 23mm
Weight	0.8kg	1.4kg	2.4kg	4.0kg

↑	Voltage	Wattage	Cat.	Qty 1+	Qty 2+	Qty 4+
	12V	5W	ZM-9091	\$24.95	\$23.70	\$22.50
	12V	10W	ZM-9093	\$36.95	\$34.95	\$33.20
	12V	20W	ZM-9094	\$74.95	\$70.95	\$67.50
	12V	40W	ZM-9095	\$129.00	\$122.00	\$116.00

80 WATT TO 200 WATT PANELS

Cat.	ZM-9097	ZM-9085	ZM-9087	ZM-9088
Maximum power	80W	120W	145W	200W
Rated voltage	12V	12V	12V	24V
Open circuit voltage	21.8V	21.6V	22.8V	45.3V
Short circuit current	5.23A	6.68A	8.06A	6.15A
Voltage at max power	17.6V	17.2V	18V	37.8V
Current at max power	4.55A	7.75A	8.96A	5.31A
Dimensions	1200 x 540 x 28mm	1190 x 660 x 35mm	1250 x 808 x 35mm	1580 x 808 x 35mm
Weight	8.2kg	11.5kg	12kg	15.5kg

NOTE: Our ZM-9088 (200W) panels are listed as approved modules by the Clean Energy Council under the factory brands Zhejiang Sopray or Talesun, models SR-200 or TP572M-200 respectively. The Powertech brand is used for marketing purposes only.

TECH TALK!

The larger (80W and above) panels are fitted with a TUV approved waterproof junction box with cable glands. They have short UV stabilised output cables and bypass diodes included.

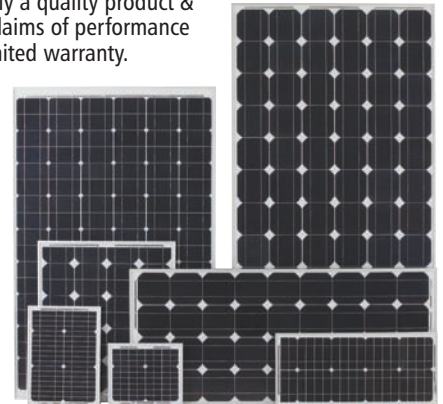


↑	Voltage	Wattage	Cat.	Qty 1+	Qty 4+
	12V	80W	ZM-9097	\$219.00	\$199.00
	12V	120W	ZM-9085	\$319.00	\$299.00
	12V	145W	ZM-9087	\$369.00	\$349.00
	24V	200W	ZM-9088 *	\$479.00	\$449.00

Unlike most of the Asian solar panel suppliers, our factory actually performs the silicon doping process in-house, which provides further quality control over the end product as they are in control of the whole process from start to finish. Each panel is also uniquely identified with a barcode serial number for traceability and warranty purposes, and the test results for each panel are logged with that serial number - so you can rest assured our factory means to ensure they supply a quality product & will stand by their claims of performance with our 25 year limited warranty.



We will not be undersold on quality panels!



25 YEAR LIMITED WARRANTY

All Powertech monocrystalline solar panels are covered by a 25 year limited warranty. This warranty covers the panels for defects in construction and manufacturing for a period of 5 years, and warrants that the electrical output will remain above 80% of its original rated output for a period of 25 years.

DON'T FORGET THESE ACCESSORIES:

UV Stabilised Solar System Power Cable - IP Rated

Very tough cable, specifically for the rigours of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.



	Cat. No	Dia(mm)	Current(A)
Two types available:	WH-3121	4mm sq.	58A
	WH-3122	6mm sq.	76A
Conductor material:	Tin plate copper, Class 5		
Insulation material:	XLPO		
Rated voltage:	1000VDC		
Temperature range:	-40 to + 125°C		
TUV certification:	2 PFG 1161/01.06		

TÜV CERTIFIED



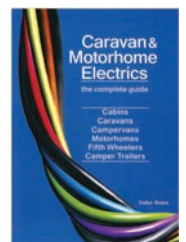
100 METRE ROLL

↑	Cat.	1+ Metre	1+ Rolls	5+ Rolls
	WH-3121	\$4.95	\$435.00	\$369.00
	WH-3122	\$7.95	\$699.00	\$595.00

BOOKS ON ALTERNATIVE ENERGIES

Motorhome Electrics

A comprehensive text written primarily for owners, designers and builders of caravans, campervans and motorhomes who face unique power demands and challenges that most auto electricians are ill-equipped to properly address. This book spans the gap between auto electrical and alternative energy disciplines, providing thorough coverage of component definitions and applications, as well as thoughtful and straight-shooting advice on common electrical problems. An engaging read for those with a general understanding on the subject, it also features more technical in-depth sections to assist trade electricians. Written by acclaimed Australian author and field expert Collyn Rivers, this is an essential reference for all caravan & motorhome enthusiasts.



• Softcover, 102 pages. 300 x 210mm.



↑	Cat.	Qty 1+
	BE-1536	\$49.95

SOLAR PANEL MOUNTING HARDWARE

Ecotech Professional Solar Mounting Hardware

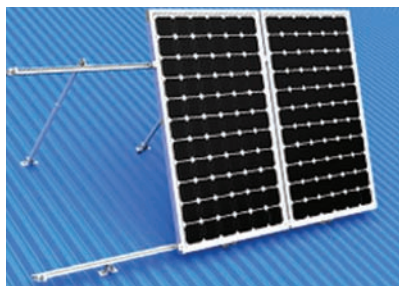
A universal and code compliant mounting system for attaching solar panels to the roof of your property. Designed to be used with either tiled or tin roofs, with any slope from 0-60° (either flat or pitched), and fully cyclone rated even for wind region D. The easy insertion modules mean that you don't have to slide each attachment along the rail to get it in place, they slot in quite easily at the very spot you want to attach them. For use with 35mm thick modules, a full range of components are available.

- Cyclone proof to Wind Region D (installation guide must be strictly adhered to)
- Vertical or horizontal panel mounting
- Suits any solar panel width, but optimised for 800-825mm width
- Suitable for aluminium framed panels
- 10 year materials warranty
- AS/NZS 1170 approved
- Roof slope: up to 60°
- Wind load: 80m/s
- Snow load: 1.4kNm²

Note: not available at all stores but can be ordered



Corrugated Iron Roof



Corrugated Iron Roof

RAILS & SPLICES

	Cat.	Qty 1+	Qty 4+	Qty 10+
2560mm Solar Panel Rail 3PV	HS-8800	\$49.95	\$44.90	\$39.90
3405mm Solar Ecotech Rail	HS-8801	\$69.95	\$62.95	\$55.95
4200mm Solar Ecotech Rail	HS-8802	\$84.95	\$76.50	\$67.95
Solar Panel Mounting Rail Splice	HS-8803	\$9.95	\$8.75	\$7.75

CLAMPS, HOOKS & LEGS

	Cat.	Qty 1+	Qty 4+	Qty 10+
Solar Panel Rail End Clamp 35mm	HS-8804	\$3.95	\$3.45	\$3.15
Solar Panel Rail Mid Clamp 35mm	HS-8805	\$3.95	\$3.45	\$3.15
Solar Panel Tile Roof Hook	HS-8806	\$26.95	\$23.95	\$21.35
Solar Panel Tin Roof Hook	HS-8807	\$8.95	\$7.95	\$6.95
Solar Panel Adjacent Front Leg Tilt	HS-8810	\$15.95	\$14.35	\$12.70
Solar Panel Mounting Back Leg 10-15°	HS-8811	\$39.95	\$35.90	\$31.90
Solar Panel Mounting Back Leg 15-30°	HS-8812	\$49.95	\$44.90	\$39.90
Solar Panel Mounting Back Leg 30-60°	HS-8813	\$59.95	\$53.95	\$47.90

Universal Individual Solar Panel Mounting Bracket

Designed for mounting solar panels individually to a fixed surface, such as the roof of a caravan, motor home, shed, or any number of other applications. Not only do these brackets provide secure and easy mounting, but they also space the panel up to provide necessary airflow. Each bracket includes a stainless steel M6 bolt and nut to attach it to the factory holes in the aluminium frame of your solar panel, meaning that no drilling or modification is required. Sold individually, so you just have to purchase the quantity that suits your panel and application.

- Made from 6061 aluminium alloy
- Recommended quantity for panels up to 40W: 4
- Recommended quantity for panels 40W-200W: 6
- Spacing from mounting surface: 22mm
- Dimensions: 80(L) x 68(W) x 35(H)mm



Note: Solar panel not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
	HS-8780	\$7.95	\$6.95	\$6.25

Joiner Bracket 80mm

Joins two rails together.

- Includes fasteners
- Mounting hole: 9.5(dia.)mm
- 80(L) x 45(W) x 40(H)mm



	Cat.	Qty 1+
Joiner Bracket 80mm	HS-8714	\$12.95

Aluminium Solar Panel Angle Mounting Bracket

An ideal solution for mounting a single solar panel to any number of various applications, allowing you to tilt the panel to your desired angle and easily fold it back down again when not in use. Fantastic for caravan, RV, campervan, marine or other applications. Holes are pre-drilled to line up with common panel sizes such as 80W saving you time and effort in mating your panel to the bracket. Supplied with full stainless steel hardware.

- Dimensions: 670(L) x 30(W) x 60(H)mm, folded



Note: Solar Panel not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
Pair	HS-8785	\$79.95	\$71.95	\$63.95

ABS Solar Panel Mounts for Caravan/Marine

Attaching solar panels to the roof of your caravan or the deck of your boat may sound like a relatively straight forward procedure - if you are happy to drill holes. If you've just sunk tens of thousands of dollars into your caravan or boat, that's probably the last thing you want to do, which is why we have introduced this range of ABS solar panel mounts. Quite simply, you stick these heavy duty ABS plastic mounts onto your caravan or boat using Sikaflex®, and then screw your panel onto the mount. The solar panel is kept with adequate space underneath for cooling, and the curved design ensures adequate wind deflection for high winds. There are 4 different products, which can be used in any combination to suit your specific application. White in colour.

ABS SOLAR PANEL CORNER MOUNTS - SET OF 4, CAT. HS-8860

A set of four corner mounts, to attach each corner of your solar panel to your desired mounting surface. These can be used on their own for solar panels 40W or smaller.



- Dimensions: 150(L) x 150(W) x 65(H)mm

ABS SOLAR PANEL SIDE MOUNTS 180MM - PAIR, CAT. HS-8862

This pair of side mounts are intended to be attached to the long edge of taller solar panels, such as 80W and above, adding extra mounting strength and giving more wind deflection.



- Dimensions: 180(L) x 120(W) x 65(H)mm

ABS SOLAR PANEL SPOILER MOUNTS 510MM - PAIR, CAT. HS-8864

Specifically designed to deflect wind on solar panel edges that face into high winds, such as the leading edge of solar panels mounted on caravan or RV rooftops. Well matched to 80W and 90W panels oriented with the short edge leading into the wind.



- Dimensions: 510(L) x 120(W) x 65(H)mm

ABS SOLAR CABLE ENTRY POINT, CAT. HS-8866

Usually, at some point the solar power cables need to enter into the caravan or boat and down to the battery area. To avoid making unsightly and potentially leaky cable entries, you can use this neat product and drill out your cable entry point, and then cover it over giving you two fully waterproof cable gland cable entries that look neat and purpose built.



- IP67 cable glands included
- Dimensions: 100(L) x 90(W) x 45(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Corner Mounts Set of 4	HS-8860	\$39.95	\$35.90	\$31.90
Side Mounts 180mm - Pair	HS-8862	\$24.95	\$22.45	\$19.95
Spoiler Mounts 510mm - Pair	HS-8864	\$49.95	\$44.95	\$39.95
Cable Entry Point	HS-8866	\$14.95	\$13.45	\$11.95

SOLAR PANEL MOUNTING HARDWARE (CONTINUED)

Waterproof Solar Power "PV" Connectors

IP67 rated for maximum environmental protection, these photovoltaic (PV) system connectors are ideally suited to harsh installations such as solar panel arrays and other permanent outdoor applications. When matched with our solar power cables WH-3120 and WH-3122, you can leave your cabling out in the open with the knowledge that you will never have a bad connection or an oxidised power cable. Both panel mounting and in-line connectors are available to suit a wide range of system applications:

Assembly Tool: TH-1930
Suitable crimping tools: TH-1834/TH-2000

- Pin dimension 4mm
- Tin plated copper contacts
- Contact resistance <5mΩ
- IP67 rated
- -40°C to +90°C
- Housing material PPO
- TUV certified



Specifications	All
Rated voltage	1000VDC
Rated current	30A at 70°C, 25A at 85°C
Contact resistance	<5 milliohms
Temperature range	-40 - 90°C
TUV certification	2 PFG 1161/01.06

Size	Cat.	Qty 1+	Qty 10+	Qty 50+
Female Inline	PS-5100	\$7.50	\$6.75	\$5.95
Male Inline	PP-5102	\$7.50	\$6.75	\$5.95
Female Panel Mount	PS-5104	\$7.50	\$6.75	\$5.95
Male Panel Mount	PP-5106	\$7.50	\$6.75	\$5.95

Solar Panel 'Y' Leads

Used for connecting the output of two solar panels in parallel or connecting multiple panels in an array. Waterproof and UV resistant.

- Pin dimension 4mm
- Contact resistance <5m ohm
- -40°C to +90°C
- TUV certified.
- Tin plated copper contacts
- IP67 rated
- Housing material PPO
- Both are 300mm long.

2 SOCKETS TO 1 PLUG Generally used on the positive pole of the panel.



2 PLUGS TO 1 SOCKET Generally used on the negative pole of the panel.



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Sockets to 1 Plug	PS-5110	\$19.95	\$17.95	\$15.95
2 Plugs to 1 Socket	PS-5112	\$19.95	\$17.95	\$15.95

CIRCUIT PROTECTION FOR PV APPLICATIONS

DIN Rail Mounting AC Circuit Breakers

DIN rail mounted circuit breakers for domestic and commercial switchboards, fuse boxes, distribution boards etc.

- Standard DIN profile.
- Electrical safety authority approved.



	240VAC	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Pole - 10A	240VAC	SF-4150	\$4.95	\$4.45	\$3.90
Single Pole - 16A	240VAC	SF-4151	\$4.95	\$4.45	\$3.90
Single Pole - 20A	240VAC	SF-4152	\$4.95	\$4.45	\$3.90
Single Pole - 32A	240VAC	SF-4153	\$4.95	\$4.45	\$3.90

Non-Polarised DC Micro Circuit Breaker (MCBs)

Under the latest revision of the standards for solar installations that are now in effect, AS/NZS 5033:2012, over current protection for solar PV arrays must use non-polarised DC circuit breakers. This 2-pole non-polarised DC breaker meet the requirements of the standard by complying to IEC 60947-2.



Note: Fuses not stocked at all stores. Call ahead to check and order in.

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Pole - 10A 550VDC	SF-4154	\$39.95	\$35.95	\$31.95

4 Way Lockable IP66 Circuit Breaker Enclosure

Designed to take the range of DIN rail circuit breakers. Standard 4-pole ABS enclosure, spring loaded clear front cover with padlock tabs, top, bottom and rear cable entry, DIN rail included, sealed to IP66. Suitable for electrical installations or solar applications.

- Dimensions: 96(W) x 195(H) x 98(D)mm



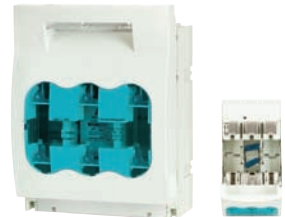
	Cat.	Qty 1+	Qty 4+	Qty 10+
Fuse Holder	SF-4158	\$34.95	\$31.45	\$27.90

Fuse Holder/Disconnecter for HRC Fuses (NT00)

This high powered 3 pole fuse link holder is ideal for use to protect high current applications used in modern solar/inverter installations.

The fuse holder supports up to 3x fuse links of up to 160A each (sold separately). Features a pull down knife switch disconnection handle so system can be shut down quickly if the need arises.

- Suits NT00 size low voltage high rupture capacity (HRC) fuse links.



Specifications	All
Rated insulation voltage (AC)	690V
Rated insulation voltage (DC)	250V
Current (max)	160A (per circuit)
Dimensions	105(W) x 200(H) x 83(D)mm



SF-4166

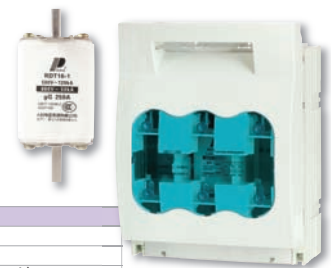
Note: Fuses not stocked at all stores. Call ahead to check and order in.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Fuse Holder	SF-4160	\$79.95	\$71.95	\$63.95
50A HRC Fuse NT00	SF-4162	\$4.95	\$4.45	\$3.90
80A HRC Fuse NT00	SF-4164	\$6.95	\$6.25	\$5.55
125A HRC Fuse NT00	SF-4166	\$9.95	\$8.75	\$7.75

Fuse Holder/Disconnecter for HRC Fuses (NT1)

A high current 3 pole fuse link holder ideal for use in high current applications such as solar, battery and inverter installations. The fuse holder supports up to 3x fuse links of up to 250A each, sold separately. Features a pull down knife switch disconnection handle so system can be shut down quickly if the need arises.

- Suits NT1 size low voltage high rupture capacity (HRC) fuse links.



Specifications	Both
Rated insulation voltage (AC)	690V
Rated insulation voltage (DC)	250V
Current (max)	250A (per circuit)
Dimensions	185(W) x 245(H) x 110(D)mm

SF-4170

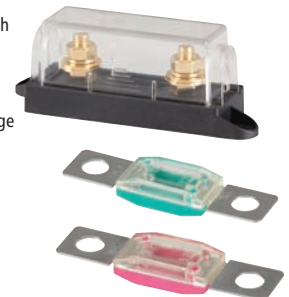
Note: Fuses not stocked at all stores. Call ahead to check and order in.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Fuse Holder NT1	SF-4170	\$129.00	\$115.95	\$102.95
250A NT1 HRC Fuse	SF-4172	\$19.95	\$17.95	\$15.95

Ultra High Current Fuses

Littelfuse® patented technology designed for high current protection, found OEM on Ford, GM and Chrysler vehicles. Slo-Blo® feature eliminates nuisance blowing during temporary, short duration overloads. Commonly used for battery and alternator connections and other heavy gauge cables requiring ultra high current protection.

- SF-1982 and SF-1984 are slow blow fuses
- SF-1986 is a short-circuit protection device
- Rated up to 32V AC or DC.
- Terminal studs 8mm.



HIGH CURRENT FUSE HOLDER BOLT-DOWN FUSE 125A BOLT-DOWN FUSE 250A

Cat SF-1980
Cat SF-1982
Cat SF-1984



	Cat.	Qty 1+	Qty 10+	Qty 25+
Fuse Holder	SF-1980	\$24.95	\$22.35	\$19.70
Bolt Down Fuse - 125A	SF-1982	\$9.95	\$8.75	\$7.75
Bolt Down Fuse - 250A	SF-1984	\$9.95	\$8.75	\$7.75

POWER & SMART ENERGY CONTROLLERS & REGULATORS

PROTECTION FOR PV APPLICATIONS (CONTINUED)

Stainless Steel Power Distribution Posts



SZ-2090



SZ-2092



SZ-2094

Heavy duty stainless steel posts mounted on a moulded plastic base. Three versions available with single connection or dual post with bridging plate to suit a variety of power distribution applications.

- Mounting hole diameter: 4.5mm
- Mounting hole spacing: 36mm between centres
- Dimensions: 45(W) x 43(L) x 35(H)mm

**DO NOT USE
FOR 240V**



	Cat.	Qty 1+	Qty 4+	Qty 10+
Single M10	SZ-2090	\$9.95	\$8.75	\$7.75
Twin M8	SZ-2092	\$11.95	\$10.75	\$9.55
Twin M6	SZ-2094	\$11.95	\$10.75	\$9.55

SOLAR REGULATORS / CHARGE CONTROLLERS

12V 5A Battery Charging Regulator for Solar Panels

Designed for efficiently charging 12V batteries using solar cells rated up to 5 amps. It is easy to wire up, prevents battery discharge during low sunlight and indicates charging and full battery conditions using a yellow and green 3mm LED.

- Ideal for charging 12V SLA batteries from solar panels up to 60 watts.
- 5 amp fuse and fuse holder recommended - not supplied.



Specifications	AA-0348
Input	14 to 22V (open circuit voltage), nominal 12V
Max. input current	5A
Inrush voltage	battery voltage < approx. 13.2V
Interrupting voltage	battery voltage > approx. 13.9V
Own power consumption	< 3.9mA (LED's on)
Dimensions	72(W) x 50(D) x 43(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 5A	AA-0348	\$29.95	\$26.95	\$23.95

12V 20A Super Solar Panel Regulator

With a massive 20 amp current handling, this switching solar panel regulator is lightweight, easy to install and does not require a heatsink. It installs easily and features automatic operation, LED power indication and boasts an efficiency up to 99.2% @ 20 amps. Not only does the regulator switch the solar panel in and out depending on the battery voltage, the regulator will disconnect the solar panel after approx 20 minutes at night fall to prevent any losses into the panel overnight. Completely Automatic.

- Battery or solar power LED indication
- Suitable for 1 to 20 amps
- Handles open circuit panel voltages 32 Volts
- Reverse Polarity Protected



Specifications	MP-3126
Terminals	6.4mm spade lug
Efficiency	97.0% @ 5 amps, 98.5% @ 10 amps, 99.2% @ 20 amps
Weight	75 grams
Dimensions	66(L) x 51(W) x 34(H)mm

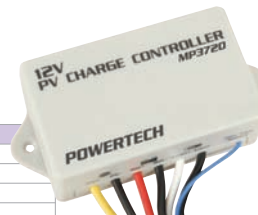


	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 20A	MP-3126	\$79.95	\$75.95	\$71.95

12V 8A Water Resistant PWM Solar Charge Controller

Suitable for both wet-cell and sealed lead-acid batteries and uses pulse width modulation for optimal 3-stage charging. It is compatible with all types of solar arrays and is potted in epoxy resin making it water resistant and suitable for use in areas of high humidity, such as outdoor or mounted to the back of a solar panel. The controller also features a "night light" load output which will automatically connect the load during the evening and disconnect it during the daytime, which also has low-voltage disconnect/re-connect protection. Reverse current flowing through the solar array is automatically blocked in this unit which removes the requirement for a separate blocking diode, and different charge voltages are selectable for wet or sealed type lead-acid batteries.

- Over current, over voltage, short circuit, over temperature and reverse polarity protections also featured.
- Full specs available on our website.



Specifications	MP-3720
Max PV open circuit voltage	26VDC
Max PV short circuit current	10A
Battery voltage	12VDC
Rated PV input current	8A (10A max)
Load voltage	12VDC
Rated load current	8 amps (10A max)
SLA charging voltage	14.5VDC
Wet cell charging voltage	14.8VDC
Float voltage	13.8VDC
Standby current consumption	7mA
Dimensions	97(L) x 46(W) x 26(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 8A	MP-3720	\$64.95	\$58.45	\$51.95

Solar Charge Controllers

You make a substantial investment in a solar power setup, so make sure you look after your expensive batteries. With these charge controllers, you have total control over battery charging and power usage. The LCD shows the system status and LEDs at a glance show battery charge status, load status and solar panel connection. They also have features like microprocessor control, programmed with 3-stage charging algorithms and pulse width modulation duty cycles of 0 - 100% to provide optimum charge conditions and battery life. 12V and 24V models available.



- User-adjustable charging voltages
- Suitable for wet or sealed lead-acid, lead calcium, lead antimony, Ni-Cd or NiFe batteries
- Microprocessor control PWM (Pulse Width Modulation) for optimum charging
- 3-stage, bulk, absorption and float charge modes with status on LCD
- Amp-hour logging readouts in 3 sets, today & last 2 days
- 5-state LED indications of battery levels
- Electronic overcharge protection and back current blocking to panel
- Dusk to dawn automatic on-off with 10 selectable on-off programs
- Adjustable battery low voltage level disconnect and reconnect for DC outputs
- System status display: charge current, battery voltage and capacity
- Overload and short circuit protection
- Over voltage and reverse polarity protection

Refer to YouTube
video
SBC7120 for
Installation
Information



Three models in this range:

Specifications	MP-3129	MP-3722	MP-3724
Rated charge/load current	20A	30A	20A
System voltage	12V	12V	24V
Dimensions	150(W) x 85(D) x 45(H)mm	150(L) x 85(W) x 50(H)mm	150(L) x 85(W) x 50(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 20A	MP-3129	\$179.00	\$160.95	\$142.95
12V 30A	MP-3722	\$219.00	\$196.95	\$174.95
24V 20A	MP-3724	\$199.00	\$178.95	\$158.95

RELATED PRODUCTS

Solar Success - Getting It Right Every Time

A complete guide for home and remote property systems, this book is about using solar energy to reduce the fossil fuel generated electricity that produces our carbon footprint. A pragmatic no-nonsense approach written by acclaimed Australian author Collyn Rivers, who walks the walk by showing his self-installed solar system on his 100% solar powered 10-acre property in the Kimberley.

- Spiral bound softcover
- 112 pages, 300 x 210mm

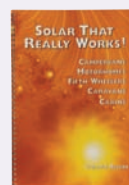


	Cat.	Qty 1+
	BE-1537	\$54.95

Solar that Really Works

The sun God Ra has been raining down free energy for about 4.5 billion years and only in recent years have humans developed the technology to capture it. This is an informative book that takes a practical look at the do's and don'ts of solar installation from caravans to fishing lodges. Contained within are detailed descriptions of working solar systems with illustrations. You won't be left asking questions as the author has everything covered.

- Softcover, 82 pages, 290 x 210mm



	Cat.	Qty 1+
	BE-1535	\$49.95

SOLAR REGULATORS / CHARGE CONTROLLERS (CONTINUED)

12V/24V 30A MPPT Solar Charge Controller

MPPT technology uses DC to DC conversion along with some electronic smarts to be able to extract the absolute maximum charging power from your solar panels, giving you up to an extra 10-40% from your solar panels when compared to a normal PWM charge controller. Adding to the benefits of MPPT technology are the features of this charge controller, such as 3-stage battery charging, twin timer programming, 30A load control with automatic load disconnection/reconnection, and much more. Programming is simple and intuitive via the front panel buttons whilst the LCD screen shows you what's happening. Suitable for 12V or 24V systems.

- Microprocessor controlled MPPT
- 3-stage charging
- 30A automatic load control with low-voltage disconnect/reconnect
- LCD display
- Two timers available for programming
- Includes temperature sensor for battery charging compensation
- Protection against over voltage, reverse connection, short circuit, over current, and over temperature

Specifications	12V Battery	24V Battery
PV nominal voltage	12V or 24V	24V
Max PV array	360W	720W
Max PV open circuit voltage	65V	65V
Bulk charge (adjustable)	13.80-14.8V	27.6-29.6V
Float voltage (adjustable)	13.0-14.0V	26.0-28.0V
Max charge current	30A	30A
Max load current	30A	30A
Ambient temp range	-20°C - 50°C	-20°C - 50°C
Efficiency	97%	97%
Dimensions	205(L) x 145(W) x 55(H)mm	



NOTE: This unit WILL charge a 12V battery from 24V solar panels, but not vice versa.

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
12V/24V 30A	MP-3735	\$259.00	\$235.00	\$209.00

SunStar Advanced MPPT Solar Charge Controllers

True commercial grade MPPT solar charge controllers from Rich Electric, with a whole host of features to suit almost any system. These controllers feature high grade maximum power point tracking (MPPT) to provide maximum efficiency in converting solar generated power into battery charging. With a wide solar (PV) input voltage range and ability to charge either a 12V, 24V, 36V or 48V battery, these MPPT controllers can

- Continuous output power has NO DE-RATING at up to 50°C ambient temperature
- Supports flooded lead-acid, GEL, AGM and LifePO4 batteries
- Full 4-stage battery charging
- Built-in energy monitor tracks power production and consumption to calculate the capacity remaining in the battery (requires external current shunt)
- Built-in backlit 2 line LCD character display
- Data logs total energy harvested for last 90 days, displaying in Wh, kWh or Ah
- Two programmable auxiliary relay outputs available
- Multiple units can be stacked for larger systems (up to 16 units in parallel)

Two models available:

Specifications	MP-3736/MP-3733
Max charge current (continuous at 50°C)	50A (MP-3736), 80A (MP-3733)
Battery voltage	12V, 24V, 36V or 48V
Max PV input current	40A (MP-3736), 70A (MP-3733)
Input voltage range	16-112VDC operating, 140VDC open circuit
Efficiency	>95%
DC to DC conversion capability	
12V battery	16-112VDC
24V battery	32-112VDC
36V battery	48-112VDC
48V battery	64-112VDC
Max PV array	3250W (MP-3736), 5200W (MP-3733), max when equalising 48V battery to 65V
Charging modes	bulk, absorption, float, auto/manual equalisation
Battery temp compensation	5.0mV per °C per 2V of battery
Standby power	<2W
Operating temp	full output power up to 50°C ambient
Dimensions	268(H) x 196(W) x 147(D)mm (MP-3736), 415(H) x 225(W) x 147(D)mm (MP-3733)
Weight	4.3kg (MP-3736), 7.1kg (MP-3733)

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
12V/24V/36V/48V 50A	MP-3736	\$1229.00	\$1099.00	\$979.00
12V/24V/36V/48V 80A	MP-3733	\$1729.00	\$1549.00	\$1379.00

be used in any number of different system applications. The two auxiliary relay outputs can also be configured to do such tasks as start up a generator with remote start, or control a dump load so that you can also incorporate a wind generator into the system. With the ability to parallel stack up to 16 units, they can even be applied to solar arrays up to 60kW! See user manual on our website for full features and specifications.

LOOK FOR our new range of Pure Sine Wave Inverters with Built-In Solar Regulators on page 258

MP-3733



MP-3736



Note: Not stocked at all stores but can be ordered

TECH TALK!

SOLAR CHARGE CONTROLLERS

Directly connecting a solar panel or array to a battery can be catastrophic as solar panels can output a wide voltage range. As an example, a nominal 12 volt rated panel can output anything up to 22 volts during an average sunny day. A solar charge controller between the panel and the battery ensures the battery receives the correct output voltage and current from the panel to minimise the risk of the battery being overcharged or discharging back into the panels. Charge controllers come in a variety of types which give different performance and can be matched to simple recreational applications all the way up to complex high power solar array installations

SWITCHING:

Simple switching controllers connect the panel to the battery when the panel is providing power and the battery is not fully charged. This type of controller is low cost and only good for basic solar equipment setups such as standby lighting, etc where the panel yield is far higher than the load requires.

PWM:

Pulse width modulated (PWM) controllers continually apply voltage pulses to the battery whenever the panel is providing sufficient voltage. The pulse width (or duration) is varied by the controller depending on the charge state of the battery to ensure the correct amount of charge is harvested from the panel whenever it is available. As a result, PWM controllers provide a much higher power yield than simple switching controllers.

MPPT:

Maximum power point tracking (MPPT) controllers maximize power conversion between the panel output and the battery input by using a DC to DC switchmode power converter. By continuously tracking the panel output and adjusting the converter they yield the maximum amount of power under widely varying solar conditions. MPPT controllers give the best solar system efficiency and improve solar system power yield by a significant percentage.



Both PWM and MPPT controllers are available with display panels which allow you to track performance of the solar system. Panel voltage, battery voltage, charging current, and total charge supplied can be easily displayed so you can ensure the system is running correctly. More complex models also include integration functions to remotely control other equipment or be linked into advanced systems.

INVERTERS COMPARISON GUIDE

Getting 230VAC to run small electrical appliances from your cars battery is easy with our range of general purpose inverters. We have models suitable for charging your laptop in the bush to running a microwave in a motor home. They have fan assisted cooling and electrical isolation for safety.



Use our selection guide to help choose...

Wattage	Input	Waveshape	Solar Regulator	Surge	Input Connection	Page	Cat.
150W	12V	Modified Sine		450W	Lighter Plug	254	MI-5127
150W	12V	Modified Sine		450W	Lighter Plug	254	MI-5102
300W	12V	Modified Sine		1000W	Screw Terminals	255	MI-5104
360W	24V	Pure Sine		720W	Heavy Duty Screw-down Terminals	259	MI-5703
400W	12V	Modified Sine		1200W	Screw Terminals	255	MI-5106
400W	24V	Modified Sine		1200W	Screw Terminals	255	MI-5107
600W	12V	Modified Sine		1500W	Bolt Terminals	255	MI-5108
600W	12V	Pure Sine	20A	1200W	Heavy Duty Screw-down Terminals	258	MI-5720
800W	12V	Modified Sine		2000W	Bolt Terminals	256	MI-5110
1000W	12V	Modified Sine		2500W	Bolt Terminals	256	MI-5112
1000W	12V	Pure Sine	30A	2000W	Heavy Duty Screw-down Terminals	258	MI-5722
1500W	12V	Modified Sine		3500W	Bolt Terminals	256	MI-5114
1500W	12V	Pure Sine	30A	3000W	Heavy Duty Screw-down Terminals	258	MI-5724
2000W	12V	Pure Sine		4000W	Heavy Duty Screw-down Terminals	259	MI-5710
2000W	24V	Modified Sine		4500W	Bolt Terminals	256	MI-5116
2000W	24V	Pure Sine		4000W	Heavy Duty Screw-down Terminals	259	MI-5712

INVERTERS - MODIFIED SINE WAVE RANGE

Getting 230VAC to run small electrical appliances from your cars battery is easy with our range of general purpose inverters. We have models suitable for charging your laptop in the bush to running a microwave in a motor home. They have fan assisted cooling and electrical isolation for safety.

150W Can-Sized Power Inverter with 2.1A USB Output

Fits in the car's cup holder, plugs into the cigarette lighter socket and outputs 230VAC to power a variety of 230VAC equipment from a battery charger to a laptop power supply. Also features a USB port with 2.1A output, allowing you to quickly charge many modern electronics gadgets, including power-hungry Tablets. It also features electrical isolation to prevent sudden mains voltage at your cigarette lighter socket.

- Powered by cigarette lighter socket adaptor
- Modified sine wave
- USB Output: 5VDC 2.1A
- Dimensions: 165(L) x 60(Dia.)mm

POWERTECH



	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
150W 12VDC	MI-5127	\$59.95	\$53.95	\$47.95

INVERTERS - MODIFIED SINE WAVE RANGE - STANDARD RANGE

150 Watt (450 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5102
Output power continuous	150W
Output power surge	450W
Standby current	< 300mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	> 90%
USB output	N/A
Input connection	Cigarette lighter plug
Weight	0.85kg
Dimensions (L x W x H)	165 x 91 x 58mm

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	20A max

Suits laptop computers, recharging power tools or batteries, lamps and fluorescents up to 150W, fax machines etc.



POWERTECH



	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
150W 12VDC	MI-5102	\$59.95	\$53.95	\$47.95

TECH TALK!

WHAT TO BUY - SINE WAVE OR MODIFIED SINE WAVE?

"Modified" sine wave is a crude approximation of the 240V waveform, with square wave components in it. Many appliances are OK with this. Typically these are :

- Most TVs, VCRs CD/DVD players
- Small power tools
- Fax machines
- Some audio equipment
- Computers (most)
- All incandescent lighting
- Most switchmode power supplies

Sine wave is closer to mains and those inverters are much more efficient. Most appliances work OK with the lower cost modified sine.

Sine wave inverters are best for:

- Electric clocks
- Electronic weighing machines
- All other TVs
- Anything where you want to get the most out of a battery charge
- Sensitive equipment
- Mains powered PA equipment
- Plug pack powered equipment

INVERTERS - MODIFIED SINE WAVE RANGE - STANDARD RANGE (CONTINUED)

300 Watt (1000 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5104
Output power continuous	300W
Output power surge	1000W
Standby current	< 300mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Cigarette lighter or alligator clamps
Weight	1.1kg
Dimensions (L x W x H)	190 x 91 x 58mm

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	35A max

POWERTECH



Leads supplied with unit.

Suits laptop computers, recharging power tools or batteries, lamps and fluorescent lights up to 300W, portable TV sets.

	Cat.	Qty 1+	Qty 3+	Qty 6+
300W 12VDC	MI-5104	\$79.95	\$71.95	\$63.95

400 Watt (1200 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5106
Output power continuous	400W
Output power surge	1200W
Standby current	< 300mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Screw terminals and alligator clamps
Weight	1.2kg
Dimensions (L x W x H)	190 x 91 x 52mm

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	50A max

POWERTECH



Leads supplied with unit.

Suits laptop computers, recharging power tools or batteries, lamps and fluorescents up to 400W, 54cm televisions, 100W Halogen worklight, electric fan, fax machines etc.

	Cat.	Qty 1+	Qty 3+	Qty 6+
400W 12VDC	MI-5106	\$89.95	\$80.95	\$71.95

400 Watt (1200 Watt Surge) 24VDC to 230VAC Electrically Isolated

Specifications	MI-5107
Output power continuous	400W
Output power surge	1200W
Standby current	<300mA
Input voltage	24VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB Output	-
Input connection	Screw terminals and alligator clamps
Weight	1.2kg
Dimensions (L x W x H)	190 x 91 x 52mm

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	21VDC +/- 1V
Low battery shutdown	20VDC +/- 1V
Battery high shutdown	30VDC +/- 1V
External fusing	25A max

POWERTECH



Lead supplied with unit.

Suits laptop computers, recharging power tools or batteries, lamps and fluorescents up to 400W, 54cm televisions, 100W Halogen worklight, electric fan, fax machines etc.

Ideal for Trucks

	Cat.	Qty 1+	Qty 3+	Qty 6+
400W 24VDC	MI-5107	\$89.95	\$80.95	\$71.95

600 Watt (1500 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5108
Output power continuous	600W
Output power surge	1500W
Standby current	< 300mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	1m lead with eye terminal
Weight	1.7kg
Dimensions (L x W x H)	242 x 91 x 58mm

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	80A max

POWERTECH



Lead supplied with unit.

Suits laptop computers, recharging power tools or batteries, lamps and fluorescents up to 600W, 68cm televisions, power drills, blenders etc.

	Cat.	Qty 1+	Qty 3+	Qty 6+
600W 12VDC	MI-5108	\$129.00	\$115.95	\$102.95

TECH TALK!

ELECTRICALLY ISOLATED INVERTERS

Our inverter lineup includes models that have dielectric insulation between the 12V(24V) primary and the high voltage (AC) secondary. This means that there is no path for the 240V to appear at the battery bank terminals. The reason for this, of course is safety. Many people these days connect inverters permanently into multiple earth neutral (M.E.N.) 240V house wiring in order to have the convenience of backup power. This is quite common also in buses, RVs and boats which have their mains usually wired to M.E.N. standards.

The problem with this is that a situation can occur where in an autotransformer wound inverter, mains can appear on one side of the battery.

You could be working on the batteries in the bilge of a boat, for example, connected to shore power and under a very possible set of circumstances, get electrocuted. If there is no electrical path between the mains 240V and the battery bank you are intrinsically safe. And yes, the great percentage of people use inverters that are not connected to the mains grid and therefore the secondary is floating and fairly safe. As we cannot guarantee the end use of our inverters, we decided to take this step. Note: We recommend that you take the prudent step of earthing the negative battery terminal anyway when installing our new inverters in permanent M.E.N. installations.

INVERTERS - MODIFIED SINE WAVE RANGE - STANDARD RANGE (CONTINUED)

800 Watt (2000 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5110
Output power continuous	800W
Output power surge	2000W
Standby current	< 800mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Bolt eye terminals
Weight	<4.0kg
Dimensions (L x W x H)	310 x 205 x 75mm

Suits lamps and fluorescents up to 800W, 68cm televisions and VCRs, power drills, blenders, belt sanders etc.

Circuit Protection	
Thermal shutdown/alarm	60°C (Automatic Recovery)
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	15.5V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	105A max



Rear View



Lead supplied with unit.



WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
800W 12VDC	MI-5110	\$199.00	\$178.95	\$158.95

1000 Watt (2500 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5112
Output power continuous	1000W
Output power surge	2500W
Standby current	< 800mA
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Bolt eye terminals
Weight	5.0kg
Dimensions (L x W x H)	310 x 205 x 75mm

Suits lamps and fluorescents up to 1000W, 68cm televisions and VCRs, power drills, blenders, microwave ovens, belt sanders etc.

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	140A max



Rear View



Lead supplied with unit.



WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
1000W 12VDC	MI-5112	\$229.00	\$205.95	\$182.95

1500 Watt (3500 Watt Surge) 12VDC to 230VAC Electrically Isolated

Specifications	MI-5114
Output power continuous	1500W
Output power surge	3500W
Standby current	< 1A
Input voltage	12VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Bolt eye terminals
Weight	5.6kg
Dimensions (L x W x H)	395 x 240 x 90mm

Suits lamps and fluorescents up to 1500W, 68cm televisions and VCRs, power drills, blenders, microwave ovens, belt sanders, computers etc.

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	10.5V +/- 0.5V
Low battery shutdown	10.0V +/- 0.5V
Battery high shutdown	15.5V +/- 0.5V
External fusing	210A max



Rear View



Includes remote control.

Lead supplied with unit.



WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
1500W 12VDC	MI-5114	\$459.00	\$409.00	\$359.00

2000 Watt (4500 Watt Surge) 24VDC to 230VAC Electrically Isolated

Specifications	MI-5116
Output power continuous	2000W
Output power surge	4500W
Standby current	<2.5A
Input voltage	24VDC
Output waveform	Modified sine wave
Output regulation	-
Efficiency	>90%
USB output	-
Input connection	Bolt eye terminals
Weight	6.2kg
Dimensions (L x W x H)	395 x 240 x 90mm

Suits lamps and fluorescents up to 2000W, 68cm televisions and VCRs, power drills, blenders, microwave ovens, belt sanders, computers etc.

Circuit Protection	
Thermal shutdown/alarm	60°C
Low battery alarm	21VDC +/- 1V
Low battery shutdown	20VDC +/- 1V
Battery high shutdown	30VDC +/- 1V
External fusing	150A max



Rear View



Lead supplied with unit.



WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
2000W 24VDC	MI-5116	\$569.00	\$509.00	\$449.00

INVERTERS - PURE SINE WAVE RANGE

We are delighted to introduce a new range of sleek, lightweight and portable pure sine wave inverters to this year's catalogue line-up.

The two models described below are designed to handle a high peak power and surge to power large devices that have high initial current demands.

They also feature over and under voltage protection, and high temperature protection that switches the inverter off automatically, and then switches back on again once suitable operating levels return. There is a USB port with 2.1A fast charging output to charge your Smartphone, Tablet and other USB devices.

All built within a sturdy housing, design is built to last.

200W 12VDC TO 230VAC Pure Sine Wave - Electrically Isolated

This 12VDC to 230VAC inverter will allow you to have 230VAC power on the go and includes a 5VDC 2.1A USB power socket to charge your smart devices. It features input voltage and output overload protection. High temperature protection automatically shuts the inverter down when it reaches a predetermined temperature, then restarts once the temperature has dropped to a lower level.

Specifications	MI-5726
Output power continuous	200W
Output power peak	270W (10min)
Output power surge	400W (1sec)
Current in standby mode	<750mA
Input voltage	10.5-15.3VDC
Output wave form	Pure sine wave
Efficiency	>86%
Output regulation	±5%
Output frequency	50Hz
USB output	5VDC 2.1A
Dimensions	189(L) x 100(W) x 60(H)mm
Weight	702g
Input connection	Removeable alligator clamps
Remote control	None

Circuit Protection	
Output overload	Beeps 3 times and LED flashes
Thermal alarm and shutdown	> 70°C
Battery low shutdown	10.5VDC
High battery shutdown	15.3VDC

POWERTECH



Qty 1+	Qty 3+	Qty 6+
\$199.00	\$178.95	\$158.95

400W 12VDC TO 230VAC Pure Sine Wave - Electrically Isolated

This 12VDC to 240VAC inverter includes a 5VDC 2.1A USB power socket to charge your smart devices. It features input voltage and output overload protection. High temperature protection automatically shuts the inverter down when it reaches a predetermined temperature, then restarts once the temperature has dropped to a lower level.

Specifications	MI-5728
Output power continuous	400W
Output power peak	450W (10min)
Output power surge	800W (1sec)
Current in standby mode	<1000mA
Input voltage	10.5-15.3VDC
Output wave form	Pure sine wave
Efficiency	>86%
Output regulation	±5%
Output frequency	50Hz
USB output	5VDC @ 2.1A
Dimensions	213(L) x 100(W) x 60(H)mm
Weight	870g
Input connection	Heavy duty screw terminals
Remote control	None

Circuit Protection	
Output overload	Beeps 3 times and LED flashes
Thermal alarm and shutdown	> 70°C
Battery low shutdown	10.5VDC
High battery shutdown	15.3VDC

POWERTECH



Qty 1+	Qty 3+	Qty 6+
\$249.00	\$225.00	\$198.95

TECH TALK!

WHEN TO & WHEN NOT TO USE INVERTERS

We DO NOT recommend that you use these products to operate the following:

- FRIDGES
- AIR COMPRESSORS
- AIR CONDITIONERS

An inverter is a device which converts 12 or 24VDC into 240VAC. The 240VAC generated is as lethal as the power in homes, and should be treated with the same respect. Inverters can be easily damaged, and connecting the input voltage terminals the wrong way around on the battery can damage the unit - be careful!!

Appliances most suitable for connection include:

- most power tools
- most TVs
- most computers
- most audio equipment
- lights
- video recorders / players
- fax machines

Fluorescent lights can give a highly inductive load on start up which can damage inverters. Appliances not suitable include:

- electric blankets
- hair dryers
- radiators
- toasters
- irons
- heavy power tools (large angle grinders, circular saws etc)

Inverters will generally drive inductive loads such as electric motors, but only if the startup current is not high. Generally high startup current situations are when the motor is permanently coupled to a load such as a refrigeration or airconditioner compressor (Imagine the compressor at rest just before top dead centre you can easily realise the start up load on the motor!). Many other motors such as in drills, small angle grinders, buffers etc start up under virtually no load and this is usually OK for the inverter provided the tool is within the inverter rating. It needs to be pointed out that one of the major differences between a domestic power point and inverter is that the source impedance of a power point is very low compared to the inverter. This is why inverters have trouble with appliances with high start up currents and a domestic power point does not. Another thing that must be remembered is the special case of fluorescent lights with ballast chokes in them (by far the most common type).

Manufacturers of fluoro lights assume that they are just going to be installed to a normal 240V 50Hz sine wave supply. They are required to supply a product that does not overly distort the mains waveform. They generally comply with this by installing a, say, 3.3µF non polarised capacitor across the mains/neutral supply inside the housing of the lamp fitting. This is called a power factor correction capacitor. This seems to work OK for a sine wave supply from a low source impedance. When you drive such a device with modified sine wave 240V power, different things start to happen. The power factor correction capacitor presents a much greater load to a modified sine wave signal (which is a complex collection of high and low frequencies) than it would if it was a sine wave. The bottom line is to reduce this capacitor to about 0.47µF or take it out completely. Inverters are generally OK then. It is also possible for an inverter to be damaged by the surges in current generated when using standard fluorescent starters. This can be prevented by replacing the starter with an electronic starter.

POWER & SMART ENERGY

SINEWAVE INVERTERS WITH SOLAR REGULATORS

INVERTERS - PURE SINE WAVE WITH BUILT-IN SOLAR REGULATORS

12VDC Pure Sine Wave inverters with built-in solar charge controller. A truly versatile inverter range that is perfect for off-grid solar power system in caravans, yachts, holiday houses, outback shed, and any standard application where inverters are used. The built-in solar charge controller means you can connect solar panels (without regulator) directly to the inverter to recharge suited batteries or battery banks. This is achieved by a single battery connection to the inverter that allows a charge and draw simultaneously or independently. The pure sine wave AC output makes them suitable to power most mains appliances within their continuous power output. Ranging from

600W to 1500W, each model includes important protections features such as reverse polarity, battery over/under voltage, overload and over temperature. All models feature 2 x standard 230VAC mains outlets, two USB ports for powering or charging USB devices and an LCD on the unit and on the included remote control that provides important information such as Battery Voltage, DC Input Current, Output Power, Battery Level and DC Charging Current.

POWERTECH

For suitable solar panels we recommend
2 x ZM-9087 12V 145W panels in series

600 Watt 12VDC to 230VAC Pure Sine Wave Inverter with 20A Solar Regulator

Specifications:	MI-5720
Output power continuous	600W
Output power Surge	1200W
Standby current	750mA
Input voltage	12VDC
Output voltage	230VAC
Output wave form	Pure sine wave
Efficiency	>90%
Output regulation	±3%
Output frequency	50Hz
2 x USB ports output	5VDC, 1A + 2A
Battery connection	Heavy duty screw terminals
Solar charge controller load current	20A max
Protections	Reverse polarity, battery over/under voltage, output short circuit, overload, over temperature
Dimensions	297(L) x 204(W) x 102(H) mm
Weight	2.4kg



Rear shot



Supplied with remote



↑	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
600W 12VDC 20A Regulator	MI-5720	\$539.00	\$479.00	\$429.00

1000W 12V to 230VAC Pure Sine Wave Inverter with 30A Solar Regulator

Specifications	MI-5722
Output power continuous	1000W
Output power Surge	2000W
Standby current	750mA
Input voltage	12VDC
Output voltage	230VAC
Output wave form	Pure sine wave
Efficiency	>90%
Output regulation	±3%
Output frequency	50Hz
2 x USB ports output	5VDC, 1A + 2A
Battery connection	Heavy duty screw terminals
Solar charge controller load current	30A max
Protections	Reverse polarity, battery over/under voltage, output short circuit, overload, over temperature
Dimensions	379(L) x 204(W) x 102(H) mm
Weight	3.2kg



Rear shot



Supplied with remote



↑	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
1000W 12VDC 30A Regulator	MI-5722	\$699.00	\$629.00	\$559.00

1500W 12V to 230VAC Pure Sine Wave Inverter with 30A Solar Regulator

Specifications	MI-5724
Output power continuous	1500W
Output power Surge	3000W
Standby current	750mA
Input voltage	12VDC
Output voltage	230VAC
Output wave form	Pure sine wave
Efficiency	>90%
Output regulation	±3%
Output frequency	50Hz
2 x USB ports output	5VDC, 1A + 2A
Battery connection	Heavy duty screw terminals
Solar charge controller load current	30A max
Protections	Reverse polarity, battery over/under voltage, output short circuit, overload, over temperature
Dimensions	429(L) x 204(W) x 102(H) mm
Weight	3.6kg



Rear shot



Supplied with remote



↑	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
1500W 12VDC 30A Regulator	MI-5724	\$899.00	\$809.00	\$719.00

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

INVERTERS - PURE SINE WAVE RANGE FOR TRUCK (24V) & HIGH CURRENT

These inverters include advanced control logic which provides standard protection (overload, high temperature, over/under input voltage, and output short circuit) as well as a host of additional features to provide improved performance and reliability under adverse conditions. The control logic checks inverter and load conditions at start-up before applying power. It also applies a soft start feature which near eliminates the risk of inverter overload when large appliances with high in-rush currents are used. Overload detection and prevention uses a three stage alarm which acts as a timed warning so you can decrease the load before the inverter completely shuts down. High temperature protection automatically shuts the inverter down when it reaches a predetermined

temperature, then restarts once the temperature has dropped to a lower level. A power saving mode can also be activated to minimise battery drain when the AC output falls below a set power threshold; ideal for use on small appliances such as entertainment equipment. When the threshold is reached the inverter is switched to standby substantially decreasing the standby current draw.

This range includes models suitable for a variety of mobile and permanent power installations. Each model has been rigorously tested (and we MEAN rigorously tested!) to ensure the best performance for your application. All models feature a standard 230VAC mains outlets as well as a USB port for powering and charging USB devices.

360 Watt 24VDC to 230VAC Pure Sine Wave - Electrically Isolated

Specifications	MI-5703
Output power continuous	360W
Output power surge	720W
Current at no load	200mA
Current in standby mode	50mA
Power saving mode options	OFF, <20W
Input voltage	24VDC
Output wave form	Pure sine wave
Efficiency	84-91%
Output regulation	±3%
Output frequency	50Hz
USB output	5VDC @ 500mA
Dimensions	230(L) x 118(W) x 57(H)mm
Weight	1.05kg
Input connection	Heavy duty screw terminals
Remote Control	None

Circuit Protection	
Output overload	Three stage alarm and shutdown
Thermal alarm and shutdown	>63° C ±3°
Thermal shutdown restart	<56° C ±3°
Battery low alarm	21.2VDC ± 0.3VDC
Battery low shutdown	20VDC ± 0.3VDC
High battery alarm	30VDC ± 0.3VDC
Input protection	Internal 25A fuse

24V ideal for trucks

POWERTECH



	Cat.	Qty 1+	Qty 3+	Qty 6+
360W 24VDC	MI-5703	\$339.00	\$299.00	\$269.00

2000 Watt 12VDC to 230VAC Pure Sine Wave - Electrically Isolated

Specifications	MI-5710
Output power continuous	2000W
Output power surge	4000W
Standby current	1800mA
Input voltage	12VDC
Output waveform	Pure Sine wave
Efficiency	>90%
Output regulation	<+/-3%
Output frequency	50Hz
USB output	5VDC +/-5% 500mA
Dimensions	520(L) x 200(W) x 88(D)mm
Weight	5.5kg
Input Connection	Heavy duty screw terminals

Circuit Protection	
Thermal shutdown & alarm	60° C +/-4° C
Battery low alarm	10.5VDC +/-0.5VDC
Battery low shutdown	10VDC +/-0.5VDC
High battery shutdown	16VDC +/-0.5VDC
Overload	Shutdown
Short circuit	Shutdown
Battery reverse	Internal fuse

POWERTECH



	Cat.	Qty 1+	Qty 3+	Qty 6+
2000W 12VDC	MI-5710	\$1499.00	\$1349.00	\$1199.00

2000 Watt 24VDC to 230VAC Pure Sine Wave - Electrically Isolated

Specifications	MI-5712
Output power continuous	2000W
Output power surge	4000W
Current - no load/standby	500mA/ 150mA
Power saving mode	OFF, <30W, <50W, <100W
Input voltage	24VDC
Output wave form	Sine wave
Efficiency	84-91%
Output regulation	±3%
Output frequency	50Hz
USB output	5VDC @ 500mA
Dimensions	450(L) x 230(W) x 74(H)mm
Weight	5.4kg
Input connection	Heavy duty screw terminals
Remote control	Wired 5m on/off switch with status light

Circuit Protection	
Output overload	Three stage alarm and shutdown
Thermal alarm & shutdown	>63° C ±3°
Thermal shutdown restart	<56° C ±3°
Battery low alarm	21.2VDC ± 0.3VDC
Battery low shutdown	20VDC ± 0.3VDC
High battery alarm	30VDC ± 0.3VDC
Input overload	Internal 150A fuse

24V ideal for trucks

POWERTECH



IMPORTANT NOTE

Do not regard the power point of an inverter as identical to a household power point. There are subtle differences. Please read the notice on page 257.

	Cat.	Qty 1+	Qty 3+	Qty 6+
2000W 24VDC	MI-5712	\$1529.00	\$1369.00	\$1219.00

RELATED PRODUCTS

FROM
\$469.00
MB-3608



BATTERY CHARGER

P241

FROM
\$519.00
SB-1695



DEEP CYCLE BATTERY

P244

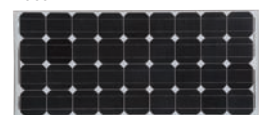
FROM
\$59.95
SF-2247



BATTERY ISOLATOR

P245

FROM
\$219.00
ZM-9097



80W SOLAR PANEL

P249

"LAB" POWER SUPPLIES

The term "Lab" power supply has become a generic term for any mains-powered unit that is characterised by indoor use only (i.e. no high IP rating). They provide a stable voltage and current under various load conditions, and (sometimes) metering and controls on the front panel. They generally offer very good value for money.



Use our selection guide to help choose...

	Voltage DC	Current	Display	Output	Page
MP-3079	13.8V	12A	-	Single	260
MP-3078	13.8V	20A	-	Single	260
MP-3089	13.8V	40A	-	Single	260
MP-3096	13.8V	5A	-	Single	260
MP-3097	13.8V	10A	-	Single	260
MP-3098	13.8V	20A	-	Single	260
MP-3800	0-24V	17A	Analogue Meter (Backlit)	Single	260
MP-3802	0-16V	30A	Analogue Meter (Backlit)	Single	260
MP-3094	1-15V	40A	LED	Single	261
MP-3840	0-30V	5A	LED	Single	261
MP-3087	2 x 0-32V	3A	LCD (Backlit)	Dual	261
MP-3090	3-15V	40A	LED	Single	261

LABORATORY POWER SUPPLIES

Fixed 13.8V Switchmode



High current general workshop power supplies for equipment component testing, etc. Internal cooling fans assist cooling at high temperatures.

- Banana socket style binding posts
- LED power on indication
- Rear mounted M205 fuse
- Ideal for 12V amateur transceivers, linear amps and high powered car stereo bench testing
- 12, 20 and 40A models

POWERTECH



Specifications	All
Input voltage range	190 - 240V AC
Output voltage range	13.8V DC regulated
Output connections	4mm Banana/Clamp Type
Recommended fuse	M205 4 amp
Dimensions	MP-3079: 170 x 160 x 85mm MP-3078: 170 x 190 x 85mm MP-3089: 190 x 260 x 105mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
12A	MP-3079	\$69.95	\$62.95	\$55.95
20A	MP-3078	\$99.95	\$89.95	\$79.95
40A	MP-3089	\$199.00	\$178.95	\$158.95

Fixed 13.8V Switchmode



These good looking power supplies are available in three current capacities of 5, 10 and 20 amp. They use proven technology and are designed to give long service life in workshop situations.

The range features short circuit protection on the output and a fused input.



Specifications	MP-3096	MP-3097	MP-3098
Output voltage	13.8VDC	13.8VDC	13.8VDC
Rated output	5 Amps	10 Amps	20 Amps
Surge current	7 Amps	12 Amps	22 Amps
Voltage regulation	<5%	<5%	<5%
Ripple voltage	100mV	120mV	150mV

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3096	\$109.00	\$97.95	\$86.95
10A	MP-3097	\$149.00	\$133.95	\$118.95
20A	MP-3098	\$219.00	\$196.95	\$174.95

Compact Switchmode Variable



Compact size, high current, variable output and fan cooling make these the ideal power supply for your bench. They are protected against thermal overload and short circuit and will display a warning LED in the event of a fault condition. Current and voltage are displayed on separate backlit analogue meters.

Two models available:



Specifications	MP-3800	MP-3802
Voltage output	0 - 24VDC	0 - 16VDC
Current output	Max 17A, 15A continuous	Max 30A, 25A continuous
Ripple	<9mVp-p at rated load	<9mVp-p at rated load
Output regulation	<1%	<1%
Dimensions	148(W) x 162(D) x 62(H)mm	148(W) x 162(D) x 62(H)mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
17A	MP-3800	\$149.00	\$133.95	\$118.95
30A	MP-3802	\$199.00	\$178.95	\$158.95

LABORATORY POWER SUPPLIES (CONTINUED)

3V to 15VDC 40 Amp
Regulated Switchmode



This high powered switch mode power supply will deliver up to 40 amps. It has a variable output voltage from 3 to 15VDC, or it can be fixed at 13.8VDC. The unit is suited to a variety of uses, especially DC powered equipment operating in a test or design environment and is ideal for car stereo work.

The unit has overload, over temperature and over voltage protection. Output voltage and current are displayed on large, easily read seven segment LED displays and incorporates an internal cooling fan.

Incredibly light for output capacity, weighing only 3.5kg



Specifications	MP-3090
Variable output	3V DC to 15VDC
Fixed voltage mode	13.8V DC
Max. output current	40 Amps (continuous)
Ripple & noise	10mVRMS
Load regulation	230mV @ 0 - 100% load
Dimensions	220(W) x 110(H) x 300(L)mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
40A	MP-3090	\$379.00	\$339.00	\$299.00

1V to 15VDC 0 to 40 Amp
Regulated Switchmode



A high powered switchmode power supply that delivers up to 40 amps. It has a variable output voltage from 1 to 15VDC and variable current from 0 to 40A with a dual action (coarse/fine) microprocessor controlled rotary encoder tuning for smooth, precise and fast settings. Banana sockets on the front provide up to 5A output and heavy duty binding posts on the rear for larger current applications. A control mode switch on the rear allows the user to select between Normal, Preset (5V, 13.8 or 15VDC), Set (User-defined) modes for quick access to frequently used VI settings, or Remote Control. The remote control feature offers a wide range of operation possibilities for sophisticated applications to adjust the voltage, current and on/off control (Additional components are necessary, which are explained in the user manual). An intelligent fan control program checks the fan at power on and adapts the right speed to ensure a quiet and efficient operation, and the isolated ground construction allows parallel or series connection of additional power supplies.

- High RFI immunity and excellent EMI
- Overload, short circuit, over temperature and tracking over voltage protected
- Incredibly light, weighing only 2.6kgs.



Specifications	MP-3094
Variable output voltage	1VDC to 15VDC
Variable output current	0A to 40A
Max. output current	40 Amps (continuous)
Ripple & noise	5mV RMS
Load regulation	50mV @ 10 - 100% load
Dimensions	200(W) x 90(H) x 215(L)mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
40A	MP-3094	\$529.00	\$469.00	\$419.00

0 to 30VDC 0 to 5A
Regulated Power supply

NEW
2016



A must have for laboratory or home workbenches. This robust DC power supply features digital control and a large easy to read LED display. Over-current and short circuit protection are built-in. Voltage is adjustable from 0-30V and current can be adjusted from 0-5A, all through the large front dials. Includes a tough carry handle making it ideal for technicians to haul around the lab. Perfect for educational, industrial, or professional users.



Specifications	MP-3840
Output voltage	0-30V
Output current	0-5A
Ripple and noise	<1.0mVRMS
Ripple current	3mA(ms)
Dimensions	110(W) x 156(H) x 260(L)mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3840	\$179.00	\$160.95	\$142.95

0 to 32VDC Dual Output, Dual Tracking

This automatic constant-voltage/constant-current transfer type power supply is effectively two 0-32VDC 3 Amp power supplies in one case. The two outputs can be operated independently, connected in parallel, or series for multiple output currents and voltages. Coarse and fine voltage controls are provided on both outputs, along with current limit control. Both outputs have independent digital voltage and current meters.

- Displays are backlit and extremely easy to read.

Specifications	MP-3087
Output voltage	2 x 0 - 32VDC
Output current	0 - 3 Amps (x 2)
Ripple and noise	<1mVRMS
Load regulation	10mV max.
Dimensions	185(H) x 260(W) x 400(D)mm
Weight	10kg approx

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	MP-3087	\$399.00	\$359.00	\$319.00



Workbench sent to us by: Andrew Jaycar Store: Sunshine

A lifetime of learning about electronics, but not about keeping things tidy.

For more details, visit:
www.jaycar.com.au/workbench



POWER & SMART ENERGY IN-CAR POWER SUPPLIES

CAR POWER SUPPLIES

12V to 5VDC Power Converter

Use this wiring kit to get rid of those unsightly and annoying power cables floating around your car dash that power your GPS, Dash cam or mobile device. Simply hardwire it to the 12V power fuse panel in your vehicle and plug the micro USB plug (micro USB adaptor also included) into the device you need to power. If your vehicle uses blade fuses then wiring can be made easier using our SF-5115 or SF-5125 blade fuse sockets, which patch into the fuse panel.

- Micro USB Plug (Mini USB adaptor included)
- 2.5A continuous current
- Cable length 1.3m



NEW 2016

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.3m	MP-3675	\$19.95	\$17.95	\$15.95

6 Plug DC to USB Lead Kit

This handy DC to USB lead pack allows you to power up devices using 5V from a USB port. Includes 6 different size tips which include 1.35, 1.5, 1.7, 2.1, 2.5mm DC and 3.5mm Audio jack.

- Cable length: 1m



NEW 2016

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	PP-1985	\$14.95	\$13.45	\$11.95

12VDC 1.2A Car Power Adaptor

Use your car's cigarette lighter socket to power or charge a variety of portable electronic devices such as mobile phones, personal audio players, handheld video game consoles and PDAs. Choose from 7 different DC voltages and 6 different adaptor tips.

Specifications	MP-3678
Input voltage	12VDC
Output voltage	1.5, 3, 4.5, 6, 7.5, 9 or 12VDC
Output current	1.2A
Cable length	1.8m
Dimension	99(L) x 55(W) x 45(D)mm



1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2A	MP-3678	\$19.95	\$17.95	\$15.70

3A Car Power Adaptor with USB Outlet

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc. Many modern devices will also charge via the USB outlet.

See our range of In-Car & Cigarette Lighter Chargers on pages 477

Specifications	MP-3671
Input voltage	12VDC
Output voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output current	3A
USB output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm



1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	MP-3671	\$29.95	\$26.90	\$23.70

Workbench sent to us by: Daniel Jaycar Store: Townsville

This is where the magic happens :)

For more details, visit:
www.jaycar.com.au/workbench



5A Regulated 12VDC Car Power Adaptor

This adaptor will power MP3 players, games, CD players, appliances or anything else that requires 5 - 12VDC at up to 5A. It's also fuse protected & includes four plug adaptors to suit most popular devices.

- Four plug adaptors
- Selectable voltage: 5, 6, 9 & 12VDC
- Fuse protected
- Lead length: 1400mm



1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3478	\$39.95	\$35.90	\$31.90

6A Regulated 12VDC Car/Truck Power Adaptor

Supplies a regulated 12VDC output at up to 6 amps, more than enough for a portable DVD player, TV, LCD screen or any other 12 volt device. You can also use it to run a DVD player from your car's 12 volt supply, as many portable DVD players will only run on a regulated 12 volt supply and will self-destruct if connected to the typical 13.8 volts of a car's electrical system. Supplied with 7 DC connectors

Specifications	MP-3064
Input	11-28VDC
Output	Regulated 12VDC @ 6A
Lead length	Input - 450mm, output - 1400mm
Case size	138(L) x 60(W) x 32(H)mm



1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
6A	MP-3064	\$69.95	\$62.95	\$55.95

POWER SUPPLIES - SWITCHMODE

Switchmode - Mains to Cigarette Lighter Socket

For powering 12V equipment such as car coolers and camping fridges from a mains AC power source. Supplied with a 1.5m output lead with cigarette socket output, making connection simple and easy. Input voltage: 240VAC

12VDC 7.5A Cat. MP-3575
Dimensions: 157(L) x 90(W) x 57(H)mm
12VDC 12.5A Cat. MP-3573
Dimensions: 200(L) x 100(W) x 65(H)mm



1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 5+	Qty 10+
7.5A	MP-3575	\$44.95	\$40.45	\$35.95
12.5A	MP-3573	\$119.00	\$106.95	\$94.95

MOTOR CONTROLLER

12VDC 8A Dimmer/Motor Speed Controller

DC speed controllers are ideal for slowing down pumps and motors or dimming lights, but some use resistance circuits or rheostats which are very inefficient. The pulse width modulation (PWM) used in this controller allows you to vary the output from 0 to 100% while maintaining a very high efficiency. When used on motors this ensures full torque is available at very low speed and the motor won't shudder at start-up. Operates on any 12VDC system and capable of controlling devices rated at up to 8 amps.



- Internal circuitry is fully potted & the control potentiometer is splash proof making this suitable for marine environments and other harsh conditions.
- Dimensions: 97(L) x 46(W) x 47(H)mm

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC 8A	MP-3209	\$34.95	\$31.45	\$27.95

POWERTECH SWITCHMODE POWER SUPPLIES

These units represent outstanding value for money and carry the same warranties and factory backup as the well-known brand-name products sold by us & others in the trade. You can confidently design these products into your production, as we will be definitely stocking these products for years to come. Indeed we will be expanding the range over time.

Summary of features:

- High efficiency and reliability
- Broad input voltage tolerances
- IEC Standards Compliant
- Short circuit, overload/overvoltage protected
- Soft-start / Low ripple DC
- Multi-country Electrical Authority approvals

POWERTECH



25 Watt - 12V & 24V

- 12 and 24 volt models available
- DIN rail bracket to suit use MP-3150
- 110/240V switch
- Weight: 370g



Specifications	MP-3160	MP-3162
Output voltage	12VDC	24VDC
Tolerance	10% +/-	10% +/-
Ripple & noise	100mV	100mV
Output current	2.1A	1.1A
Efficiency	76%	77%
Input frequency	47-63Hz	47-63Hz
Cold start inrush current	30A	30A
Weight	370g	370g
Dimensions (LxWxH)mm	99x97x35	99x97x35

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12 Volt	MP-3160	\$44.95	\$40.45	\$35.90
24 Volt	MP-3162	\$44.95	\$40.45	\$35.90

40 Watt - 12V & 24V

- 12 and 24 volt models available
- DIN rail bracket to suit use MP-3150
- 110/240V switch
- Weight: 450g



Specifications	MP-3165	MP-3167
Output voltage	12VDC	24VDC
Tolerance	10% +/-	10% +/-
Ripple & noise	100mV	100mV
Output current	3.5A	1.8A
Efficiency	76%	76%
Input frequency	47-63Hz	47-63Hz
Cold start inrush current	60A	60A
Weight	450g	450g
Dimensions (LxWxH)mm	129x98x38	129x98x38

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12 Volt	MP-3165	\$54.95	\$49.45	\$43.90
24 Volt	MP-3167	\$54.95	\$49.45	\$43.90

60 Watt - 12V & 24V

- 12 and 24 volt models available
- DIN rail bracket to suit use MP-3152
- Weight: 500g



Specifications	MP-3170	MP-3172
Output voltage	12VDC	24VDC
Tolerance	10% +/-	10% +/-
Ripple & noise	120mV	150mV
Output current	5A	2.5A
Efficiency	76%	79%
Input frequency	47-63Hz	47-63Hz
Cold start inrush current	60A	60A
Weight	500g	500g
Dimensions (LxWxH)mm	159x97x38	159x97x38

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12 Volt	MP-3170	\$59.95	\$53.95	\$47.90
24 Volt	MP-3172	\$59.95	\$53.95	\$47.90

60 Watt 5V/4A 12V/3A

- Provides 5 and 12 volts at the same time.
- Note: Total output must not exceed 60W
- Weight: 500g
- DIN rail bracket to suit use MP-3152



Specifications	MP-3174
Output voltage	5VDC + 12VDC
Tolerance	10% +/-
Ripple & noise	75mV + 150mV
Output current	4A (5V) + 3A (12V)
Efficiency	73%
Input frequency	47-63Hz
Cold start inrush current	60A
Weight	500g
Dimensions (LxWxH)mm	159x97x38

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3174	\$64.95	\$58.50	\$51.95

100 Watt - 12V

- 12 volt output at 100 Watts.
- 110/240V switch
- Weight: 650g
- DIN rail bracket to suit use MP-3152



Specifications	MP-3175
Output voltage	12VDC
Tolerance	10% +/-
Ripple & noise	100mV
Output current	8.5A
Efficiency	81%
Input frequency	47-63Hz
Cold start inrush current	40A
Weight	650g
Dimensions (LxWxH)mm	199x98x50

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3175	\$69.95	\$62.95	\$55.95

120 Watt - 5V & 24V Dual Output

- Provides 5 and 24 volts at the same time.
- Note: Total output must not exceed 120W
- Automatic Input Voltage Detect.
- DIN rail bracket to suit use MP-3152



Specifications	MP-3180
Output voltage	5VDC + 24VDC
Tolerance	10% +/-
Ripple & noise	60mV + 150mV
Output current	6A (5V) + 4A (24V)
Efficiency	80%
Input frequency	47-63Hz
Cold start inrush current	40A
Weight	-
Dimensions (LxWxH)mm	199x110x50

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3180	\$99.95	\$89.95	\$79.95

150 Watt - 12V, 15V & 24V

- 12, 15 and 24 volt models available.
- Automatic input voltage detection.
- Weight: 650g
- DIN rail bracket to suit use MP-3152



Specifications	MP-3185	MP-3187	MP-3189
Output voltage	12VDC	15VDC	24VDC
Tolerance	10% +/-	10% +/-	10% +/-
Ripple & noise	180mV	180mV	240mV
Output current	12.5A	10A	6.5A
Efficiency	82%	84%	85%
Input frequency	47-63Hz	47-63Hz	47-63Hz
Cold start inrush current	60A	60A	60A
Weight	650g	650g	650g
Dims (LxWxH)mm		199x110x50	

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12 Volt	MP-3185	\$94.95	\$85.50	\$75.95
15 Volt	MP-3187	\$94.95	\$85.50	\$75.95
24 Volt	MP-3189	\$94.95	\$85.50	\$75.95

240 Watt - 12V - 18 Amp

- Delivers 18 amps at 12 Volts.
- Automatic input voltage detection.
- Inbuilt thermally controlled fan for cooling.
- Weight: 1.1kg



Specifications	MP-3250
Output voltage	12VDC
Tolerance	10% +/-
Ripple & noise	150mV
Output current	18A
Efficiency	82%
Input frequency	47-63Hz
Cold start inrush current	36A
Weight	1.1kg
Dimensions (LxWxH)mm	205x93x65

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3250	\$169.00	\$151.95	\$134.95

DIN RAIL BRACKETS

DIN Rail Brackets

DIN Rail brackets to suit switchmode DIN and enclosed frame power supplies. MP-3150 suits 25 & 40 watt models MP-3152 suits 60, 100, 120, 150 watt models MP-3154 Clip is required for the brackets above, which is then attached onto the DIN rail.

Note: M3 and M4 screws are required.



↑	Type	Cat.	Qty 1+	Qty 3+	Qty 6+
	1 DIN	MP-3150	\$5.95	\$5.25	\$4.75
	2 DIN	MP-3152	\$6.95	\$6.25	\$5.50
	Clip	MP-3154	\$5.95	\$5.25	\$4.75

DIN RAIL POWER SUPPLIES

45 Watt Industrial DIN Rail Switchmode Power Supplies

These compact and light weight industrial DIN rail switchmode power supplies features full temperature, voltage and current overload protection. They have a built-in EMI filter, a power on LED and operate from 85 ~ 264VAC to provide either 12 Volts DC @ 3.5A or 24 Volts DC @ 2.0Amps. Input and output connections are via a 7.5mm pitch terminal block.



Specifications	MP-3190	MP-3192
Input voltage	85-265VAC, 120-370VDC	85-265VAC, 120-370VDC
Input frequency	47-63Hz	47-63Hz
Output voltage	12VDC	24VDC
Line regulation	1% +/-	1% +/-
Ripple & noise	200mV	480mV
Output current	3.5A	2A
Efficiency	77%	80%
Cold start inrush current	60A @ 230V	60A @ 230V
Dimensions	93x78x68mm	93x78x69mm

↑ Voltage (V)	Watts (W)	Cat.	Qty 1+	Qty 3+	Qty 6+
12	45	MP-3190	\$89.00	\$79.95	\$70.95
24	45	MP-3192	\$89.00	\$79.95	\$70.95

120 Watt Industrial DIN Rail Switchmode Power Supplies



Specifications	MP-3195	MP-3196
Input voltage	110/240VAC (switch), 248-370VDC	110/240VAC (switch), 248-370VDC
Input frequency	47-63Hz	47-63Hz
Output voltage	12VDC	24VDC
Line regulation	1% +/-	1% +/-
Ripple & noise	80mV	80mV
Output current	10A	5A
Efficiency	80%	84%
Cold start inrush current	40A @ 230V	40A @ 230V
Dimensions	65x125x100mm	65x125x100mm

↑ Voltage (V)	Watts (W)	Cat.	Qty 1+	Qty 3+	Qty 6+
12	120	MP-3195	\$149.00	\$133.95	\$118.95
24	120	MP-3196	\$149.00	\$133.95	\$118.95
48	120	MP-3197	\$149.00	\$133.95	\$118.95

DC - DC CONVERTERS

DC to DC Converter Modules

Handy DC voltage converter modules that can step-up or step-down voltages so you can power your devices where a different power source is present. This could include powering 12VDC devices from a 6VDC motorbike battery or to run 12VDC devices from a 24VDC battery found in trucks. These units feature protection against short-circuits, overload and over-heating. They will auto-switch off in the event of overheating. Compact size and all models feature mounting holes. See our website for datasheets.

Three models to chose from:

DC TO DC STEP DOWN VOLTAGE CONVERTER MODULE

Specifications	AA-0236
Input voltage	6-28VDC
Output voltage	3-15VDC
Max output current	1.5A
Dimensions	60(L) x 45(W) x 20(D)mm

AA-0236



DC TO DC STEP UP VOLTAGE CONVERTER MODULE

Specifications	AA-0237
Input voltage	6-14VDC
Output voltage	11-26VDC
Max output current	2A
Dimensions	70(L) x 60(W) x 23(D)mm

AA-0237



24VDC TO 12VDC STEP DOWN VOLTAGE CONVERTER MODULE (NOT USER SELECTABLE)

Specifications	AA-0238
Input voltage	24VDC
Output voltage	12VDC
Max output current	1.1A
Dimensions	70(L) x 60(W) x 23(D)mm

AA-0238



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5A	AA-0236	\$24.95	\$22.35	\$19.70
2A	AA-0237	\$29.95	\$26.95	\$23.70
1.1A	AA-0238	\$24.95	\$22.35	\$19.70

24VAC/DC to 12VDC 1A Converter

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it.

- Connection is by screw terminals.

Specifications	MP-3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm



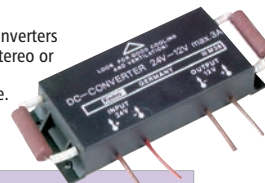
↑ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
1A	MP-3350	\$39.95	\$35.95	\$31.95

24VDC to 12VDC 3A Converter

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

- Short-circuit protection
- Thermal cutout

Specifications	AA-0266
Input voltage	24 to 26 VDC
Output voltage	12VDC
Maximum load	3A
Dimensions	135 x 50 x 24 mm
Heatsink	50 x 100 x 30 mm (rec. size), use Cat. HH-8572 or similar



↑ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	AA-0266	\$29.95	\$26.95	\$23.95

24VDC to 12VDC 5A Converter with USB

For those with a 24V vehicle such as a truck or bus, finding accessories like chargers and power supplies that run off 24V can be near impossible. This handy little device solves that problem by converting 24VDC to 12VDC so that you can use normal car accessories designed for 12V vehicles. Connection couldn't be easier, with a cigarette lighter plug for 24V input and a cigarette lighter socket for the 12V output. Maximum rated current is 5A, which is enough for most modest car chargers and power supplies. As a bonus the unit also has a USB output with 1A current to charge your mobile phone or other USB device.

Specifications	MP-3354
Input voltage	12 - 30VDC
Output voltage	12VDC
Max. output current	5A
Continuous output current	4A
Efficiency	85%
Dimensions	100(L) x 76(W) x 38(H)mm



↑ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3354	\$64.95	\$58.45	\$51.95

24VDC to 12VDC 10A Converter

DC to DC converters are useful for running 12V devices from a 24V supply in a truck or bus. These have switchmode technology for light weight and compact design and are rated for 10A. Input and output is via cigarette lighter plug and socket.

Specifications	MP-3352
Input voltage	20 - 30VDC
Output voltage	13.8VDC
Max. output current	10A
Continuous output current	7A
Efficiency	85%
Dimensions	160(L) x 48(W) x 48(H)mm

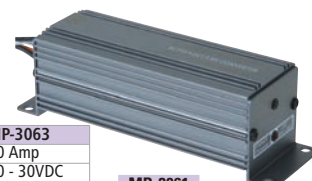


↑ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP-3352	\$89.95	\$80.95	\$71.95

24VDC to 12VDC Converters

DC to DC converters are useful for running 12V devices from a 24V supply in a truck or bus. These have switchmode technology for light weight and compact design.

Specifications	MP-3061	MP-3063
Current	10 Amp	20 Amp
Input voltage	20 - 30VDC	20 - 30VDC
Output voltage	13.8VDC	13.8VDC
Max. output current	10A	20A
Continuous output current	7A	15A
Efficiency	85%	85%
Dimensions L x W x Hmm	160 x 48 x 48	210 x 90 x 50



↑ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP-3061	\$74.95	\$67.45	\$59.95
20A	MP-3063	\$119.00	\$106.95	\$94.95
40A	MP-3066	\$149.00	\$133.95	\$118.95

SWITCHMODE AC ADAPTORS

Switchmode AC Adaptors - all of which meet the requirements of the MEPS guidelines and they all feature high levels of efficiency as well as a low standby power consumption, on top of the regular features you have come to expect from our range. The range is compact and has increased the maximum power output of each model - all at the same low price you have always paid.

REGULATED - FIXED VOLTAGE

They are extremely light and compact; enough to snugly and neatly fit side by side on a powerboard - no more wasted AC outlets!

They incorporate high-efficiency circuitry, built in EMI filter, short circuit protection, over current protection and thermal shutdown capability.

Ideal for use with
power boards



5 Watt - Ultra-Slim

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- 1.7m lead
- Safety Approval No. GMA102513EA
- Meets MEPS requirements



↑ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
5	1	GMA102513EA	MP-3144	\$17.95	\$15.95	\$14.35
6	0.8	GMA102513EA	MP-3145	\$17.95	\$15.95	\$14.35
9	0.5	GMA102513EA	MP-3146	\$17.95	\$15.95	\$14.35
12	0.4	GMA102513EA	MP-3147	\$17.95	\$15.95	\$14.35

15 Watt - Slim High Power

Regulated output voltage, small size and higher power output make these AC adaptors suitable for thousands of different applications.

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- Safety Approval no. NSW25014
- Meet MEPS requirements



↑ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
5	3.0	NSW25014	MP-3480	\$24.95	\$22.35	\$19.70
6	2.2	NSW25014	MP-3482	\$24.95	\$22.35	\$19.70
9	1.7	NSW25014	MP-3484	\$24.95	\$22.35	\$19.70
12	1.5	NSW25014	MP-3486	\$24.95	\$22.35	\$19.70

PLUGS SUPPLIED WITH SWITCHMODE AC ADAPTORS

The 7 plugs supplied with switchmodes are shown here, and are not interchangeable with those on our transformer style range shown on later pages.



25 Watt - Extra High Power

- Input: 100-240VAC 50/60Hz
- Huge output power
- Supplied with 7 plugs
- Safety Approval no. NSW25260
- Meet MEPS requirements



↑ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
9	3.0	NSW25260	MP-3496	\$29.95	\$26.95	\$23.95
12	2.5	NSW25260	MP-3490	\$29.95	\$26.95	\$23.95
15	2.0	NSW25260	MP-3492	\$29.95	\$26.95	\$23.95
24	1.25	NSW25260	MP-3494	\$29.95	\$26.95	\$23.95

UNREGULATED - FIXED VOLTAGE

5 Watt - Unregulated Ultra-Slim

These super-slimline switchmode AC adaptors give an unregulated DC output, meaning that when loaded below their rated power, they will provide a slightly higher output voltage.

- Input: 100-240VAC, 50/60Hz
- Extra small, will fit side-by-side on a powerboard
- Unregulated output voltage
- Direct replacement for old transformer type AC adaptors
- Supplied with 7 DC plugs
- Safety approval no. SAA121777EA
- Meets MEPS requirements



↑ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
9	0.55	SAA121777EA	MP-3280	\$14.95	\$13.35	\$11.70
12	0.4	SAA121777EA	MP-3282	\$15.95	\$14.35	\$12.75

MULTI - VOLTAGE

Switchmode Plugpacks with USB Outlets

These switchmode plugpack adaptors are slim in size, lightweight, and feature manually selectable variable voltage outputs. All are MEPS compliant and come supplied with 7 plugs and a USB output socket. (MP-3318 does not include USB socket)

7.2W 3 - 12VDC	MP-3310
Input voltage	100 - 240VAC
Output voltage	3, 4.5, 5, 6, 7.5, 9, 12VDC
Output current	600mA (max)
Dimensions	69(L) x 39(W) x 31(H)mm
12W 3 - 12VDC	MP-3312
Input voltage	100 - 240VAC
Output voltage	3, 4.5, 5, 6, 7.5, 9, 12VDC
Output current	1000mA (max)
Dimensions	75(L) x 44(W) x 44(H)mm
18W 3 - 12VDC	MP-3314
Input voltage	100 - 240VAC
Output voltage	3, 4.5, 5, 6, 7.5, 9, 12VDC
Output current	1500mA (max)
Dimensions	82(L) x 52(W) x 45(H)mm
27W 3 - 12VDC	MP-3316
7 output plugs	
Input voltage	100 - 240VAC
Output voltage	3, 4.5, 5, 6, 7.5, 9, 12VDC
Output current	2250mA (max)
Dimensions	80(L) x 65(W) x 50(H)mm
25W 9 - 24VDC Plugpack	MP-3318
Input voltage	100 - 240VAC
Output voltage	9, 12, 13.5, 15VDC @ 1.5A, 18, 20VDC @ 1.2A, 24VDC @ 1A
Dimensions	96(L) x 50(W) x 30(H)mm



↑ Voltage VDC	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
3 - 12	NSW24400	MP-3310	\$19.95	\$17.95	\$15.95
3 - 12	NSW24400	MP-3312	\$24.95	\$22.35	\$19.70
3 - 12	SAA091002EA	MP-3314	\$29.95	\$26.95	\$23.95
3 - 12	SAA091002EA	MP-3316	\$34.95	\$31.45	\$27.90
9 - 24	SAA091002EA	MP-3318	\$34.95	\$31.45	\$27.90

Switchmode Mains Adaptor 3 - 13.8VDC 2.5A

Variable desktop supply with binding post and 7 DC plugs. 1.5m lead - interchangeable plugs.

Specifications	MP-3308
Output voltage	3, 5, 6, 9, 12, 13.8VDC
Output current	2.5A max
Dimensions	140(L) x 80(W) x 42(H)mm



↑ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
13.8	2.5	SGSEA/120936	MP-3308	\$39.95	\$35.90	\$31.90

POWER & SMART ENERGY

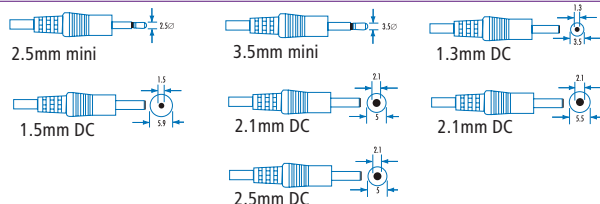
AC ADAPTORS & DESKTOP PLUGPACKS

TRANSFORMER TYPE AC ADAPTORS

Most adaptors are supplied with seven different plugs which suit most applications. All are Electricity Authority (SAA) approved.

PLUGS SUPPLIED WITH ADAPTORS

Reversible so you can have centre pin positive or negative by reversing the plug.



DC Output - Regulated 12VDC 500mA

- CCD Camera Power Supply
- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive.



Voltage (VDC)	Current (A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
12	0.5	SAA130443EA	MP-3011	\$19.95	\$17.95	\$15.95

AC Output - Non Regulated - Single Voltage

- (Regulated AC output in a plugpack is not currently feasible).



Voltage (AC)	Current (A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
9	1.0	SAA151963EA	MP-3027	\$24.95	\$22.35	\$19.70
12	1.0	SAA151963EA	MP-3026	\$29.95	\$26.95	\$23.95
12 NEW	1.67	SAA151963EA	MP-3058	\$39.95	\$35.90	\$31.90
15	1.5	SAA151963EA	MP-3059	\$29.95	\$26.95	\$23.95
24*	1.0	SAA151963EA	MP-3032	\$24.95	\$22.35	\$19.70

*Stripped and tinned termination

16VAC 1.25 Amp Alarm Supply

Designed for use with many house alarm panels. Supplied with three metres of cable for connection to alarm.

- Size: 55(W) x 90(H) x 60(D)mm.
- Terminated with bare ends.



Voltage (AC)	Current (A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
16	1.25	SAA151963EA	MP-3021	\$24.95	\$22.35	\$19.70

POWER SUPPLY ACCESSORIES

Plugs To Suit AC Adaptors

Suits all our transformer type 240VAC adaptors

- 0.7mm ID x 2.35mm OD x 10mm long - Yellow dot Cat PA-3691.
- 1.75mm ID x 4.75mm OD x 10mm long - Green dot Cat PA-3692..



	Cat.	Qty 1+
	PA-3691	\$1.50
	PA-3692	\$1.50

In-line Low Voltage Switch

Simply connect your plug pack adaptor into this in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off.

- 2.1mm DC plug & socket - rated at 24VDC at 2 amps.



	Cat.	Qty 1+	Qty 10+	Qty 25+
	SK-0998	\$7.95	\$6.95	\$6.25

7 Plug DC Wiring Kit - 1.8m

Configure your own plugpacks or wire to projects to give standard DC output plugs. Includes the same socket and 7 DC plugs as supplied with our range of switchmode AC plugpack adaptors.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-1980	\$8.95	\$8.05	\$7.15

DESKTOP STYLE AC ADAPTORS

These products meet the requirements of Energy Star, the European Commission Code of Conduct, and of course California's legislation, suppliers of electronic equipment requiring an external power supply can ship their products worldwide without needing to understand the complex new systems.

60W - 12V, 19VDC & 45W 24VDC

Versatile switchmode power supplies in a range of different configurations. All have high output currents and are low-profile for easy mounting.

- Each requires a separate IEC 240VAC lead - Cat PS-4106

- Output cable terminated to fixed 2.5mm DC plug except for MP-3243 which includes 5 output plugs

MP-3242/43 = SAA090025EA
MP-3246/48 = SAA090329EA



Voltage(VDC)	Current(A)	Cat.	Qty 1+	Qty 5+	Qty 10+
12	5	MP-3242	\$59.95	\$53.95	\$47.90
12 (5 plugs)	5	MP-3243	\$64.95	\$58.50	\$51.95
19	3.42	MP-3246	\$59.95	\$53.95	\$47.90
24	2.7	MP-3248	\$59.95	\$53.95	\$47.90

65W - 48VDC

48V power supply specifically designed for power over Ethernet applications.

Specifications	MP-3249
Voltage	90 - 264VAC
Output voltage	48V @ 1.35A
Power output	65W Max.
Over voltage protection	Shutdown latch mode
Over current protection	2 step controlled current source
Short circuit protection	Built-in
Efficiency	85% min. at full load
Ripple/noise (mVpp)	2%

Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
Q080195	MP-3249	\$59.95	\$53.95	\$47.90



120W 12VDC 10A Desktop Style Switchmode Supply

High current switchmode desktop power supply. Suitable for various power requirements, including large surveillance systems to replace a number of smaller plugpacks. DC splitter cables available separately.

- Includes IEC power lead
- Output cable terminated to fixed 2.1mm DC plug

Specifications	MP-3241
Input Voltage	220-240VAC
Output Voltage	12VDC
Output Current	10A
Output Connector	2.1mm DC plug
Output Cable Length	1.2m
Dimensions	174(L) x 72(W) x 44(H)mm

Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
A/14041EA	MP-3241	\$84.95	\$76.45	\$67.95



60W - 12VDC 5A

Specifications	GH-1379
Input	220 - 240VAC
Output	12VDC @ 5 amps
Dimensions	160(L) x 85(W) x 40(H)mm
Input lead lengths	1.2m
Termination	2 pin connector

- Switchmode



Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
SAA111923EA	GH-1379	\$34.95	\$31.45	\$27.95

For full range of replacement Laptop Power supplies see page 340 in our computer section



240 - 115V STEPDOWN TRANSFORMERS

TECH TALK!

STEPDOWN TRANSFORMERS

A WORD ON ISOLATION. THIS MEANS THAT:

The primary (240V) & secondary (115V) are totally electrically isolated (Dielectric isolation). This is the safest way of making a mains voltage conversion. We recommend this type of transformer whenever the application is medical or medically related or where the secondary equipment is to be operated in or near water or high moisture environments. Note the 240V earth is carried through to the 115V socket earth. As a further safety measure we now supply the ISOLATED units with resettable circuit breakers.

50 Watt - 240VAC to 115VAC

Includes overhear protection. If the unit gets too hot, the thermal fuse will open, then close after unit cools down, restoring operation. Two pin US socket on unit for 110V appliance and cord plug for 240V power.

- 50 Watts.
- This is not dielectrically isolated. (auto transformer type)
- Not for use in wet areas



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
50W	MF-1091	\$49.95	\$44.90	\$39.90

Isolated Stepdown Transformers

Quality fully-enclosed stepdown transformer with fold up metal carry handles, approved 3 wire power cord & US style 2 pin 110 - 115V socket.

- Electrically isolated between primary and secondary
- Protective earth carried through to output
- Useable with precision electric & electronic appliances.
- Compact, excellent, safe & robust construction - steel case.
- DO NOT compare these to cheap, non isolated units. Your life is too precious!

Includes a resettable circuit breaker instead of fuse. Now you are not tempted to replace the fuse with a piece of coathanger wire.

120 Watt 240V - 115V Isolated

Specifications	MF-1080
Rating	120VA (watts) 1.0 amp
Dimensions	125(W) x 74(D) x 90(H)mm
Weight	2.4kgs

Cat. MF-1080



250 Watt 240V - 115V Isolated

Specifications	MF-1082
Rating	250VA (watts) 2.2 amps
Dimensions	133(W) x 81(D) x 98(H)mm
Weight	3.2kgs

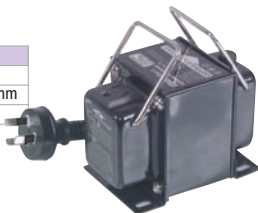
Cat. MF-1082



500 Watt 240V - 115V Isolated

Specifications	MF-1084
Rating	500VA (watts) 4.2 amps
Dimensions	158(W) x 100(D) x 120(H)mm
Weight	6kgs

Cat. MF-1084



1000 Watt 240V - 115V Isolated

Specifications	MF-1086
Rating	1000VA 8.6 amp
Dimensions	195(L) x 120(W) x 140(H)mm
Weight	11kg

All other details are similar to our other units.

Due to heavy weight (11kgs) please check for freight costs. Cat. MF-1086



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
240 - 115V 120W	MF-1080	\$119.00	\$106.95	\$94.95
240 - 115V 250W	MF-1082	\$169.00	\$151.95	\$134.95
240 - 115V 500W	MF-1084	\$289.00	\$259.00	\$229.00
240 - 115V 1000W	MF-1086	\$419.00	\$375.00	\$335.00

GARDEN LIGHTING TRANSFORMERS

Designed to power 12V and 24V garden lights from mains power. All output voltages are AC, not DC.

240V to 12VAC 105 Watt - Indoor

It will power 2 x 50W halogen globes or 5 x 20 watt. Ideal for 5 x 20W pathway lights, for example. Transformer must be used inside.

- 135(L) x 83(W) x 70(H)mm
- Output is via screw terminals
- 4 holes for easy screw mounting

Cat. MP-3043



240V to 24VAC 150 Watt - Indoor

All globes must be 24V rated

- Output 6.25 amps

Cat. MP-3045



↑	Approval No.	Cat.	Qty 1+	Qty 5+	Qty 10+
12VAC 105W	N15653	MP-3043	\$39.95	\$35.90	\$31.90
24VAC 150W	N16803	MP-3045	\$59.95	\$53.95	\$47.90

VARIAC

0-260VAC Variable Laboratory Autotransformer (Variac) - 500VA

The variable autotransformer (Variac is the trade name of a popular brand) is one of the most useful and efficient devices ever invented for the control of AC voltage and of voltage-dependent parameters such as current, power, temperature, light intensity, motor speed etc. It enables the AC input to a mains powered appliance to be easily varied from 0 to full line voltage (or greater). Encased in heavy-duty steel housing it also features on/off switch, output-voltage meter, mains-supply lead and standard 3-pin power output. A must for testing appliance performance under real (simulated) mains fluctuations.

NOT DIELECTRICALLY ISOLATED

- New and improved
- Now supplied with slow blow fuses for extra reliability.

Specifications	MP-3080
Rated power handling	500 VA (fused)
Input Voltage	240 VAC @ 50Hz
Output Voltage	0 - 260 VAC @ 50Hz
Dimensions	165(D) x 120(W) x 160(H)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC 500VA	MP-3080	\$239.00	\$214.95	\$190.95

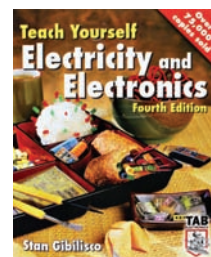


BOOKS

Teach Yourself Electricity and Electronics - Fourth Edition

Comprehensive, straightforward and well-written, this book covers everything from atomic structure to DC & AC theory, semi-conductors, integrated circuits, digital electronics & communications. Each chapter has a quiz at the end so you can test your knowledge. One of the best entry-level self-teaching textbooks on electronics we've ever seen.

- Softcover. 734 pages with illustrations
- 232 x 190mm.



↑	Cat.	Qty 1+
	BM-7108	\$64.95

Workbench sent to us by: Roy Jaycar Store: Midland

Work in progress always

For more details, visit:

www.jaycar.com.au/workbench

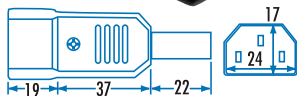


IEC CONNECTORS

Line Male

Widely used in personal computers.

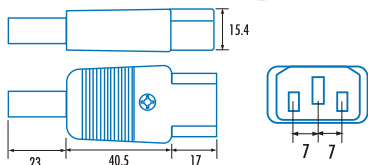
- Safety approved number NSW21518
- EC320 C14
- 240V



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4007	\$6.95	\$6.25	\$5.50

Line Female

- Safety approved number NSW21510
- EC320 C13
- 240V



Cat.	Qty 1+	Qty 4+	Qty 10+
PS-4006	\$5.95	\$5.25	\$4.75

High Temperature IEC320 C15 Socket

Intended for service in higher temperature environments up to 120°C at a current rating of 10 amps. Incorporates a keyway which prevents being used with standard temperature IEC320 C14 connections.



Cat.	Qty 1+	Qty 4+	Qty 10+
PS-4013	\$9.95	\$8.75	\$7.75

IEC320 C13 Right Angle Line Socket

Right angle IEC plugs and sockets for installations where wall space or rack space is extremely limited. Create much neater connections to your devices. Both units feature strain relief rubber cable entries.

IEC320 C13 RIGHT ANGLE LINE SOCKET

- Dimensions: 68(H) x 35(D) x 28(W)mm



IEC320 C14 RIGHT ANGLE LINE PLUG

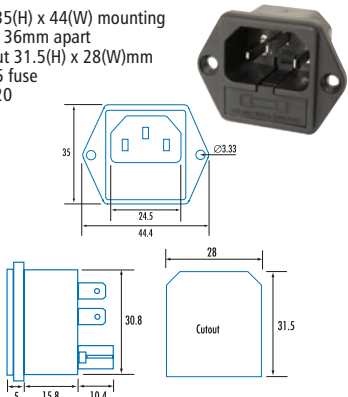
- Dimensions: 68(H) x 35(D) x 35(W)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4012	\$7.95	\$6.95	\$6.25
PS-4015	\$7.95	\$6.95	\$6.25

Male Chassis with Fuseholder

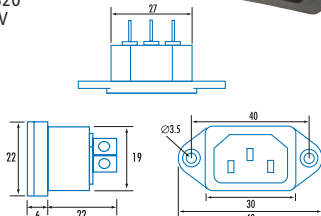
- Size 35(H) x 44(W) mounting holes 36mm apart
- Cutout 31.5(H) x 28(W)mm
- M205 fuse
- IEC320
- 240V



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4004	\$6.95	\$6.25	\$5.50

Male Chassis

- Size 50(W) x 22(H)mm
- Mounting holes 40mm apart
- IEC320
- 240V

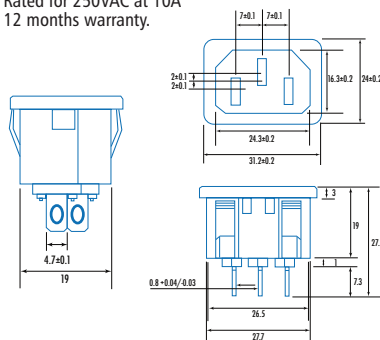


Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4005	\$3.95	\$3.45	\$3.15

Snap-In Mains Plug

Panel-mounting IEC mains socket. Unfused and non-switched.

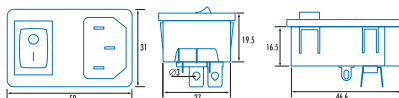
- Panel thickness: 0.8 - 3mm
- Cutout size: 27 x 19mm
- Rated for 250VAC at 10A
- 12 months warranty.



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4009	\$4.95	\$4.45	\$3.90

Chassis Male with Switch & Fuse

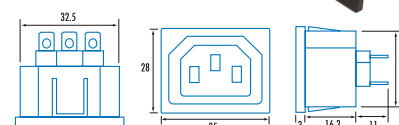
- DPST switch.
- M205 size fuseholder
- Max 10A, 250V
- IEC320



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4003	\$7.95	\$6.95	\$6.25

Chassis Socket Female

- Simply snaps in.
- Rated at 250V 10A.
- IEC320



Cat.	Qty 1+	Qty 4+	Qty 10+
PS-4002	\$4.95	\$4.45	\$3.90

Rubber Covers

Slip over the back of the above IEC connectors to cover the mains terminals.

SMALL:

Suits Cat PP-4005 & IEC filters

LARGE:

Suits Cat PS-4002 & PP-4004



	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	PM-4015	\$2.75	\$2.45	\$2.30
Large	PM-4016	\$2.95	\$2.60	\$2.45

EMI Power Line Filter - 6 Amp

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line converter and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz. Safety & construction are in compliance with UL, CSA, VDE etc.



- Cutout 27 x 21mm
- IEC320

Cat.	Qty 1+	Qty 4+	Qty 10+
MS-4003	\$9.95	\$8.75	\$7.75

FOREIGN PLUG LEADS

IEC320 Power Mains Leads

To suit 3 different regions/countries. We have had so many enquiries for these products that we now stock the following range which are black in colour and are all earthed.

USA

3 x 18AWG (41 x 34 strands) cable rated at 250/300V @ 10 amps.



- Temperature rated at 60° C and approved to UL817, CSA C.22.3 N.42, JIS C3306, C8303 and NEMA 5-15.
- 1.8 metres long

PS-4140

SOANAR

UK

3 x 0.75mm² (24 x 0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.



- Temperature rated at 70° C and approved to UK spec BS 1363-84
- 2 metres long

PS-4142

SOANAR

EUROPE/GERMANY

3 x 0.75mm² (24x0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.



- Temperature rated at 70° C and approved to CEE (7) & VDE standards.
- 2 metres long
- N15464

PS-4144

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4140	\$15.95	\$14.35	\$12.70
2.0m	PS-4142	\$15.95	\$14.35	\$12.70
2.0m	PS-4144	\$15.95	\$14.35	\$12.70

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



MORE INFO
ONLINE

CARAVAN POWER

Portable RCD with 15A to 10A Mains Plug Conversion

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Ideal if you only have a device with a 15A mains plug, and you are located somewhere that does not have a 15A power outlet available. Features a 10A circuit breaker/RCD in case you accidentally overload the device. Not suitable for outdoor use, unless combined with our HB-6178 weatherproof case.

Specifications	MS-4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA



	Cat.	Qty 1+	Qty 4+	Qty 10+
15A to 10A Mains Adaptor	MS-4044	\$89.95	\$80.95	\$71.95

Weatherproof (IP55) Caravan Power Adaptor with RCD

Finally, a product that legally allows you to connect your caravan/RV into a normal domestic power outlet WITHOUT leaving a hole in your hip pocket - no need for unsafe and illegally modified extension leads!! Weatherproof rated to IP55 it is safe to leave outside, and with a residual current device (RCD) safety switch, this product gives you the ability to safely and legally connect your caravan 15A power lead to a normal 10A power outlet. Also includes a 10A circuit breaker in case you accidentally overload the device. A must have for any caravan or RV. Fully certified for electrical safety (AS/NZS 3190) and compliant to Australia Standards for caravan wiring (AS/NZS 3001).



	Cat.	Qty 1+	Qty 4+	Qty 10+
MS-4044 + HB-6178	MS-4048	\$139.00	\$124.95	\$110.95

See our larger size weatherproof & outdoor powerboards on page 273

Heavy Duty 15A Extension Leads

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present.



- Perfect for caravans and motorhomes

	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS-4182	\$29.95	\$26.95	\$23.95
15m	PS-4184	\$39.95	\$35.90	\$31.90
20m	PS-4186	\$49.95	\$44.90	\$39.90

CIRCUIT TESTERS & BREAKERS

Non-contact AC Voltage Proximity Detector

About the size of a marking pen, this non-contact tester detects AC voltages from 200 - 1000V. Featuring red and green indicators, the unit will glow green when safe, and when voltage is detected it will flash red and beep at an increasing rate as you get closer to the voltage source. It can be used for detecting live mains in outlets, power boards or insulated wiring. It also has an LED torch and a handy pocket clip. A must for every toolbox.

- Green and Red LED indicators
- Switchable audible and silent mode
- Auto Power Off
- Flashlight function
- CAT III rated
- Includes 2 x AAA batteries
- Dimensions 176(L) x 26(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2268	\$24.95	\$22.45	\$19.95

STOP PRESS!!

See page 274 for a Wall Plate Adaptor that converts a single GPO to a double GPO with 2 x USB outlets!

Inline RCD Circuit Breaker

A vital safety device for anyone that works with electric power tools. It can also be a lifesaver when used with electric grass cutters, electric pumps, rice cookers, water heaters, induction cookers and hair dryers. As this unit is pre-wired with an AS/NZS rated mains plug and socket, no license is required to install it!

Specifications	QP-2002
Rated Voltage	240VAC
Rated Current	10A
Trip Current	30mA
Protection Class	IP65



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2002	\$34.95	\$31.45	\$27.90

Power Point and Earth Leakage Tester

A professional socket tester with modern, ergonomic and durable design, to test the safety of installed mains socket. Also checks 30mA RCDs, a unique soft-touch button tests that an RCD in the circuit trips within 300ms when a nominal 30mA earth fault current is applied; a further button, the earth volts touchpad, detects raised earth voltages above 50VAC, thus indicating potentially dangerous installations. Three vivid bicolour LEDs and a buzzer provide a quick-to-check combination of signals which indicate correct wiring, missing earth, live/neutral reverse, earth/live reverse, missing neutral, live faults, and those errors detected by the two pushbutton tests.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2004	\$29.95	\$26.95	\$23.95

MAINS HARDWARE

Double GPO with 2 x USB Charging Ports

Minimise the amount of power boards, cable mess, USB power adaptors and chargers connected around the house by fitting these handy GPOs instead. These devices have everything you expect from a standard double power point (GPO), but have the additional bonus of including two USB charging ports each capable of 2.1A output current. The USB ports area also fitted with spring loaded dust covers, ensuring that they don't fill up with dust bunnies when not in use. Perfect for fast charging your Android® devices, iPad®, iPhone®, iPod®, GPS navigation devices, cameras, or other USB charging products, whilst keeping the 240VAC power point free for other mains appliances. A must have for the home office, kitchen, and bedroom.



- 2 x regular 240VAC 10A power points
- 2 x 2.1A USB charge ports (compatible with Apple® devices & Tablet friendly)
- No special wiring, direct replacements for standard Australian double power point
- Electrical safety authority approved
- Zero standby power ensures that you are energy efficient

SAA approved



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 x GPO, 2 x USB	PS-4067	\$34.95	\$31.45	\$27.90

240V GPO Wall Socket with 4 x USB 3.15A Output

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket. Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!



SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 x USB	PS-4071	\$34.95	\$31.45	\$27.90

Double GPO with 2- Pole Switches for Caravans & Motorhomes

By law, caravans, motorhomes and other recreational vehicles require a GPO with double pole switch that disconnects both the Active and Neutral to reduce the chance of electric shock.



- 240V 10A rated
- Includes mounting screws

SAA approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
Double GPO	PS-4069	\$19.95	\$17.70	\$15.70

MAINS HARDWARE (CONTINUED)

Mains Power Switches & GPOs

Tradies pay attention!! Finally, there is a discount alternative to the big brand names! Despite being made in China, this range of general purpose outlets (GPOs) & light switches are all made with the highest quality materials and feature an attractive finish you would be happy to show inside your home. The switches are the same hardwearing long service life type you'll find in the big brand names, and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

Mains Light Switches

Standard GPO size light switch. 240V 10A rated.

- Safety Approval No. SAA121203EA



	Approval	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Switch	SAA12103EA	PS-4055	\$4.95	\$4.45	\$3.90
Double Switch	SAA12103EA	PS-4057	\$5.95	\$5.25	\$4.75

General Purpose Outlets - GPOs

These switches are the same hard wearing long service life type you'll find in the big brand names and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

- Safety Approval No.: ESV120046
- Packaged in a handy trade-style polybag

Three different types available:

PS-4040 Single 240V GPO
PS-4060 Double 240V GPO
PS-4046 Double 240V GPO with Extra Switch



Note: the screws included with these have a slightly different pitch to the standard 3.5 x 0.8mm, but should still fit plasterboard mounting plates etc.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single GPO	PS-4040	\$4.95	\$4.45	\$3.90
Double GPO	PS-4060	\$6.95	\$6.25	\$5.50
Double GPO with extra switch	PS-4046	\$9.95	\$8.75	\$7.75

Power Lead 3 Pin

- Latest models with insulated pins
- 3 Pin 240V AC plug with 2 metres of 3 core cable to bare ends with lug on earth. 7.5A.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4110	\$5.95	\$5.25	\$4.75

240V Line Plug 10A

- Safety clear plastic cover.
- Latest models with insulated pins



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-4000	\$3.95	\$3.45	\$3.15

Side Entry Line Plug 240V

- Latest models with insulated pins



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-4001	\$4.95	\$4.45	\$3.90

240V Mains Line Socket

- Safety type.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4008	\$7.95	\$6.95	\$6.25

240VAC Single Architrave Light Switch

Single architrave light switch suited for door frames.

- 10A 2-Way switch
- Narrow profile for architrave mounting
- White colour



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4051	\$3.95	\$3.45	\$3.15

Mains Surface Socket

3 pin mains socket, where there is plenty of external room. No need to cut large hole in panel - only for wiring.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4092	\$7.95	\$6.95	\$6.25

Mains Panel Sockets with Cover

Mains panel socket - spring loaded cover
• Approval no: ES0140170



10A 250VAC

- 50(H) x 50(W) x 27.6(D)mm

PS-4095

15A 250VAC

- 62(H) x 50(W) x 27.7(D)mm

PS-4097

	Cat.	Qty 1+	Qty 10+	Qty 50+
10A	PS-4095	\$6.95	\$6.25	\$5.55
15A	PS-4097	\$4.95	\$4.45	\$3.90

240V 32A "BP" Mains Connectors

Available as a pack of 10 standard single screw connectors and 2 double screw. Ideal for safe, reliable earth connections.

"BP" style connectors, also known as acorns.
(Double screw are for earth).

- 8 single and 2 double per pack



	Cat.	Qty 1+	Qty 10+	Qty 50+
Pkt 10	HM-3192	\$9.95	\$8.75	\$7.75

Junction Box

Size 70 x 70 x 37(D)mm.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4066	\$7.95	\$6.95	\$6.25

BUSBARS

Machined Brass Busbar - 8 Way



DO NOT USE FOR 240V

These are usually used to give an electrically common point for earth wiring but are also useful for low voltage tie points, especially on boats or RV's, Caravans etc., 6 holes accept up to a 4.5mm wire bundle and the outer 2 a 6.0 bundle. The Busbar has insulated standoffs at each end which can be removed so that the assembly can be screwed directly to a chassis. The standoffs have a conservative insulation rating of 1000V.

- All screws M4.0 Brass bar 9.0 x 6.0
- Length overall including standoffs: 100mm, without standoffs: 65mm.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2003	\$6.95	\$6.25	\$5.50

150A Insulated Bus Bar

This quality bus bar features a raised insulating base that isolates the bus bar from earthed or other live chassis. It features 2 x 5mm bolted terminals for connecting main power feeds, and 10 screw terminals for connecting lower current feeds of up to 10A each. Total current capacity is 150A, and is suitable for 12-32V wiring. 2 countersunk screw holes for 5mm metric fasteners.

- Not suitable for 240V active circuit
- Dimensions: 145(L) x 30(W) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2012	\$16.95	\$15.25	\$13.55

TRAVEL ADAPTORS COMPARISON GUIDE

Use our selection guide to help choose...

Country	Australia TO (Outbound)	Includes USB Charger	TO (inbounds) Australian	Includes USB Charger
Europe	PP-4042 PP-4023 PP-4047	Yes No Yes(4)	PP-4050	No
Great Britain	PP-4044 PP-4024 PP-4049	Yes No Yes(4)	PP-4027	No
Hong Kong	PP-4044 PP-4049	Yes Yes(4)	-	-
India	PP-4028 PP-4041	No Yes		
Japan	PP-4026	No	-	-
Japan 2 Pin	PP-4048	Yes	-	-
South Africa	PP-4028 PP-4041	No Yes	-	-
Universal Overseas*		No	PP-4040	Yes
USA	PP-4046 PP-4025 PP-4045	Yes No Yes(4)	PP-4050 PP-4027	No No

*excludes (South Africa & Japan)

TRAVEL ADAPTORS

Mains Travel Adaptors With USB Charging Port

Suitable for taking your Australia/New Zealand appliances on your overseas travels. Each provides a USB charging port with 2.1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

4 versions available to suit most countries.
• NOTE: Does not convert voltage.

Australia to Europe

Suitable for taking your Australia/New Zealand appliances overseas to plug into Europlug power sockets.

SAA approved



↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4042	\$17.95	\$15.95	\$14.35

Australia to UK/Hong Kong

Suitable for taking your Australia/New Zealand appliances overseas to plug into UK/Hong Kong power sockets.

SAA approved



↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4044	\$17.95	\$15.95	\$14.35

Australia 3 Pin to USA

Suitable for taking your Australia/New Zealand appliances overseas to plug into 3 pin earthed USA power sockets.

SAA approved



↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4046	\$17.95	\$15.95	\$14.35

Australia 2 Pin to Japan

Suitable for taking your 2 pin Australia/New Zealand appliances overseas to plug into 2 pin un-earthed Japan/USA power sockets.

SAA approved



↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4048	\$17.95	\$15.95	\$14.35

WARNING!

Note: These adaptors do not convert voltage. Item being connected must be suitable for 220-240VAC

Universal Travel Adaptor With USB Charger, Overseas to Australia

Suitable for plugging overseas appliances into Australia/New Zealand power sockets. Also provides a USB charging port with 2.1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage.

• Suitable for 240V 50Hz mains.



SAA approved

↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4040	\$19.95	\$17.70	\$15.70

WARNING!

We strongly recommended that you exercise extreme caution if buying 240V mains accessories from so-called "2\$ shops". There have been stories in the News recently where people have been electrocuted from products purchased at these establishments. It appears that they are imported from overseas (usually China) and are not subjected to a rigorous inspection/approval process before being offered for sale.

The 240V products offered from us are all electrically tested and approved where appropriate. Why risk the lives of yourself and loved ones by using potentially dangerous goods which are not that much cheaper than products from reputable suppliers?

Mains Adaptor Unearthed for USA or Japan

This travel adaptor is designed for use on 2 pin Australian appliances while travelling in Japan or the USA.

Only suitable for items without an earth pin such as most mobile phone chargers and laptop power supplies.



SAA approved

↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4026	\$9.95	\$8.75	\$7.75

Earthed Mains Adaptor for Use in Australia & New Zealand

This universal adaptor converts 3 pin plugs from USA or UK to match 3 pin outlets in Australian and New Zealand. Also compatible with the unearthed 2 pin Europlug common throughout Europe.

SAA approved

↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4027	\$9.95	\$8.75	\$7.75

Europe/USA/Japan Mains Travel Adaptor

For use by visitors from all over the world (except South Africa & India).

SAA approved

↑ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4020	\$12.95	\$11.35	\$10.35



For Stepdown
Transformers
see page 267

POWER & SMART ENERGY TRAVEL ADAPTORS

TRAVEL ADAPTORS (CONTINUED)

Mains Adaptors for Australia & NZ Going Overseas

They DO NOT convert voltage, but allow you to plug into various types of wall outlets around the world.

USA

SAA approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4025	\$9.95	\$8.75	\$7.75

EUROPE

SAA approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4023	\$9.95	\$8.75	\$7.75

GREAT BRITAIN

SAA approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4024	\$9.95	\$8.75	\$7.75

India/South Africa Mains Travel Adaptor

Electrical appliance adaptors for Australians travelling overseas to India or South Africa.

Note: DOES NOT convert voltage.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4028	\$9.95	\$8.75	\$7.75

Outbound Mains Travel Adaptor for South Africa and India

Will let you use Australian appliances in South Africa and India. Also provides a USB charging port with 1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4041	\$19.95	\$17.95	\$15.95

Inbound Mains Travel Adaptor for Europe and USA with USB

Suitable for plugging overseas appliances from Europe, Bali, USA and Japan into Australia/New Zealand power sockets. Also provides a USB charging port with 1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4043	\$19.95	\$17.95	\$15.70

Outbound USA Mains Travel Adaptor with 4 USB Sockets

Will let you use Australian appliances in the USA and Canada. Also provides 4 USB charging ports with total output of 2.1A current to charge your Tablet or Smartphone.

Note: Does not convert voltage, suitable for 240V 50Hz mains.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4045	\$24.95	\$22.50	\$19.95

Outbound Europe Travel Mains Adaptor with 4 USB Sockets

Will let you use Australian appliances in Europe, Bali and several other regions. Also provides 4 USB charging ports with 2.1A total output current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4047	\$24.95	\$22.50	\$19.95

Outbound UK and HK Mains Travel Adaptor with 4 USB Sockets

Suitable for taking your Australia/New Zealand appliances overseas to plug into UK/Hong Kong power sockets. Also provides 4 USB charging ports with 3.15A total output current.

Note: Does not convert voltage, suitable for 240V 50Hz mains.



SAA approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4049	\$24.95	\$22.50	\$19.95

USA and Europe Inbound Travel Adaptor

Accepts overseas 2 and 3 pin plugs and adapts to Australia and New Zealand. For use with electrical appliances from Europe, USA, and some Asian and South American countries.

- Does not convert voltage.
- Approval Number NSW21745
- 54 x 54 x 37mm

SAA approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4050	\$9.95	\$8.75	\$7.75

Workbench sent to us by: Tim Jaycar Store: Hobart

This is the main part of my man-cave work bench. In here I build my own custom arcade machines from scratch, I repair computers and create lots of electronic projects with my daughters to help them learn and grow.

My 3yo daughter loves playing with LEDs and button cell batteries to make them light up. My 5yo daughter enjoys building wooden toys from the scraps of my arcade machines.

A 3D printer is something we would love to have to be able to create so much more.

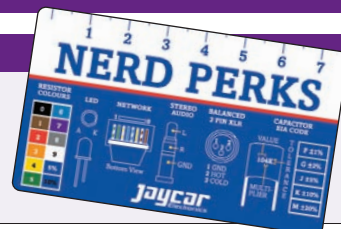
For more details, visit:
www.jaycar.com.au/workbench



NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



POWER LEADS

2 Pin Power Lead

Black 240V 2 pin power lead as used in many appliances, eg: portable Hi-Fi, shavers etc.

- 1.8 metres long
- Universal round IEC C7 connector.
- Not earthed
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4115	\$5.95	\$5.25	\$4.75
5.0m	PS-4117	\$11.95	\$10.70	\$9.50

Clover Leaf

3 pin clover type to 240V plug

- 1.8 metres long
- Earthed
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4120	\$6.95	\$6.25	\$5.50

AUTOMATIC ACCOUNT

**For Schools, Government
Departments,
Public Companies,
Radio & TV Stations**

IEC LEADS

Straight IEC Female to 240V Plug

- 1.8 metres long.
- Earthed
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4106	\$8.95	\$7.95	\$6.95

Straight IEC Female to 240V Plug - 5m

Extra long mains lead (5 metres) to allow more options with equipment placement or for eliminating an extension lead.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	PS-4105	\$13.95	\$12.35	\$10.95

Right Angle IEC Female to 240V Plug

- 1.8 metres long
- Earthed
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4107	\$9.95	\$8.75	\$7.75

15A IEC C19 Female to 240V Plug

- 1.8 metres long
- 15A
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4124	\$12.95	\$11.35	\$10.35

IEC Male to 3 Pin (GPO) Female

Ideal for connecting a standard powerboard to a UPS etc.

- SAA approved
- 150mm long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	PS-4100	\$9.95	\$8.75	\$7.75

IEC Female to IEC Male

- 1.8 metres long
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4108	\$8.95	\$7.95	\$6.95

240V Male to 2 x IEC Female

- 2.0 metres.
- SAA Approved
- 540mm before join, each output 1550mm long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4102	\$16.95	\$14.95	\$13.35

IEC Male to 2 x IEC Female

Generally used for splitting "switched" outputs - like the one on the back of many computers that is used for powering the monitor. Now you can use this facility to turn on another device - like a printer, desk lamp...anything with an IEC male.

- Length 2.0 metres
- SAA Approved



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4104	\$17.95	\$15.95	\$14.35

MAINS EXTENSION LEADS

Mains Extension Leads - White

These leads have the new "safe socket", which has a flange around it, so kids can't slide a knife in and hurt themselves.

- Off white colour



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2 metres	PS-4122	\$7.95	\$7.10	\$6.25
3 metres	PS-4125	\$10.95	\$9.85	\$8.75
5 metres	PS-4130	\$15.95	\$14.35	\$12.75
10 metres	PS-4134	\$29.95	\$26.95	\$23.95

Mains Extension Leads - Black

Perfect for stage, lighting, DJ or other applications where the inconspicuousness of a black extension lead is required.

- Rated to 10A max



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2 metres	PS-4152	\$8.95	\$8.05	\$7.15
5 metres	PS-4155	\$14.95	\$13.35	\$11.70
10 metres	PS-4157	\$24.95	\$22.45	\$19.95

Heavy Duty 15A Extension Leads

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present.

- Perfect for caravans and motorhomes



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS-4182	\$29.95	\$26.95	\$23.95
15m	PS-4184	\$39.95	\$35.90	\$31.90
20m	PS-4186	\$49.95	\$44.90	\$39.90

CONNECTION BOXES

IP44 Weatherproof Outdoor Powerboard Enclosure

Running 240 volt power cables outdoors can be quite dangerous if they are not protected from the elements. This weather proof powerboard box has an IP44 weather resistant rating and will considerably improve the safety factor. (Not waterproof)

- IP44 Rating
- Fits extra long powerboards up to 420mm long
- Wall mountable
- Child safe with locking option
- Dimensions: 450(L) x 180(W) x 125(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6179	\$54.95	\$49.45	\$43.95

Dri-Box Weatherproof Power Connections Boxes

Protects mains connections from rain, dust, or grime. Just insert a mains plug and socket into the box, connect them, then run the cable out of the openings at each end. The box lid features a rubber gasket and each opening uses a rubbery-jelly material to safely seal the cable from exposure. Ideal for protecting Christmas/other outdoor lighting cables, water features, outdoor speaker cables, outdoor heating equipment, and many other outdoor applications. Our large model is capable of containing most 4 way powerboards. It features 5 openings, one for the mains coming from the powerboard and 4 to be used as outputs from the powerboard. IP55 rated.



Size	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	200(L) x 90(W) x 94(H)mm	HB-6175	\$24.95	\$22.45	\$19.95
Large	285(L) x 150(W) x 110(H)mm	HB-6177	\$34.95	\$31.45	\$27.95

POWER & SMART ENERGY

POWER ADAPTORS & NIGHT LIGHTS

MAINS DOUBLE ADAPTORS

Mains Double Adaptors

- 240V Double Adaptors
- Standard, right & left types



	Approval Number	Cat.	Qty 1+	Qty 4+	Qty 10+
Standard	N14532	PP-4032	\$4.95	\$4.45	\$3.90
Right Hand	NSW22165	PP-4035	\$4.95	\$4.45	\$3.90
Left Hand	NSW22165	PP-4036	\$4.95	\$4.45	\$3.90

Double Adaptor with Night Light

Leave a night light on for the kids without wasting a power point. When the lights go out, the light comes on so you can find your way to the little room or the kitchen for a midnight snack and it only uses a tiny 0.2W so it won't send the power bill through the roof. It can be left in place and you still have use of the power outlet.

- Light-sensitive
- Size: 88(H) x 44(W) x 33(D)mm



	Approval Number	Cat.	Qty 1+	Qty 4+	Qty 10+
	SAA101507EA	PP-4039	\$9.95	\$8.75	\$7.75

MAINS ADAPTORS WITH SURGE PROTECTION

Mains Surge Protector

Mains surge protectors are a must for protecting valuable equipment against damage. Unknown to the majority of consumers, the voltage coming out of the power point can and will fluctuate daily, even without major occurrences like lightning strikes. These two mains surge protectors alleviate the majority of problems caused by these increases in voltage which damage delicate and expensive appliances connected to your power outlets.

Each model has protection across active-neutral and active-earth and is fully approved for electrical safety. Providing adequate protection against most surges in mains voltages, they can save you many times the cost of these units in repairs or insurance claims.

Specifications	MS-4015
Load rating	240VAC 50Hz 10A
Energy absorption	175J
Surge current	6000A



	Cat.	Qty 1+	Qty 4+	Qty 10+
Double Power Point	MS-4015	\$10.95	\$9.75	\$8.75

Surge Protected Mains Double Adaptor with 2 x USB Ports

Provides 2 x mains sockets and 2 x USB sockets for recharging all manner of Smartphones and USB powered gadgets. Features a green grounded LED and red protected LED. Surge protected so you don't fry your valuable gadgets in the case of any power spikes.

Specifications	Both
Voltage	230-240VAC
Max current	10A
Max Power	2400W
Max energy	525J
Max spike current	18000A
Noise filter	150kHz-100MHz
Output Voltage	5VDC
Output Current	1A (PP-4037), 3.5A (MS-4087)
Output Power	5W
Dimensions	91(W) x 72(W) x 55(D)mm



⬆		Cat.	Qty 1 +	Qty 4 +	Qty 10 +	
	Double + 2 x USB	1A	PP-4037	\$17.95	\$16.15	\$14.35
	Double + 2 x USB	3.5A	MS-4087	\$29.95	\$26.95	\$23.70

Detachable Wall Plate Double Adaptor with 2 USB Ports

A detachable wall plate adaptor that can be easily fixed to an existing power outlet without opening and rewiring which adds 2 x USB ports. The 2 x USB outlets can charge and power your USB devices up to 3.1A in total. Using these two USB ports, you can turn any wall outlet into a mobile device charging station. This smart unit is embedded with surge protection, switchable light sensor night light and emergency light. It suits widely used wallplates such as Clipsal, HPM, etc. Perfect for the kitchen, bathroom, or garage.

- 2 x USB outlets
- 2 x Mains power outlets
- Emergency light in white light
- Light control night light in blue light



Specifications	MS-4009
Voltage	230-240V
Frequency	50/60Hz
Current	10A (Max.)
Power Rating	2400 Watt (max.)
Protection Mode	Fuse & MOV Protected
USB Outlets	5V, 3.1A (total)
Dimensions	134(L) x 95(W) x 38(D)mm (excluding pins)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Double + 2 USB	MS-4009	\$39.95	\$35.90	\$31.90

NIGHT LIGHTS

LED Night Light with Sensor

No need to trip over the cat or stub your toe when you need to get up in the middle of the night. Keep one of these plugged in and it will give you enough light to see where you're going. Being LED, it uses very little power, so you can leave it on permanently. The built-in sensor turns the light off whenever the room lights are switched on.

- Ideal for kids room, hallways and closets
- Rotates through 360° to light any direction
- No batteries required
- Durable construction
- Unobtrusive size - smaller than a double adaptor
- Dimensions: 50(Dia) x 50(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	ST-3181	\$9.95	\$8.75	\$7.75

Mains Night Light with Torch

A beautifully designed night light that plugs into a power point and will automatically illuminate a dark hallway, stairway or any room when motion is detected. It has a built-in low light sensor so that it is only activated at night or during low light conditions. The torch sits in an induction charge base and can be easily removed for use during power outages.



Specifications	ST-3146
Power	110-240VAC
Built-in battery	2 x 2450 3.7V 120mAh Li-ion
15 x LED Night Light / 5 x LED Torch	
Charging time	8 hours
Burn time	15LED: >1h / 5LED: >5h
Sensor distance	2-3m
Sensor angle	60°
Dimensions	170(H) x 75(D) x 54(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	ST-3146	\$24.95	\$22.35	\$19.70

For small cupboard/wardrobe night lights see page 462

Workbench sent to us by: Terry Jaycar Store: Tuggeranong

As I have an 'L' shaped workspace my pic is a panorama.

My den is used for computing, assembling model RC helicopters, charging batteries and all things electronic.

For more details, visit:
www.jaycar.com.au/workbench



POWERBOARDS

4 & 6 Way Powerboards

These powerboards will allow 4 or 6 appliances to be plugged in at once to a single power point.



- Maximum load is 2400 watts.
- Includes a safety overload with reset switch.
- White in colour.
- Cord length 1.2 metre.
- Power LED indicator

SAA approved

POWERTECH

4 or 6 way available



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	MS-4040	\$9.95	\$8.95	\$7.95
6 Way	MS-4045	\$11.95	\$10.75	\$9.55

Powerboards - Filter / Surge & Overload Protection

These powerboards offer a choice of 4 or 6 outlets, all filtered and surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.



POWERTECH

- Surge and spike protected mains outlets
- 10 Amp resettable overload circuit breaker
- Cable length: 1 metre
- Colour: White

SAA approved

Specifications	Both
Surge Protection	Metal Oxide Varistors
Supply Voltage	230-240VAC
Current rating	10A max
Energy Absorption	230 Joules

4 or 6 way available

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	MS-4051	\$11.95	\$10.75	\$9.55
6 Way	MS-4055	\$14.95	\$13.35	\$12.70

4 Way Mains Powerboard with 2 x USB and Surge Protection

This 4 way powerboard includes 2 rapid charge USB sockets suitable for carrying most smart devices and has filters for protection of mains products. Ideal for protecting your computer from spikes and surges.

- 4 surge and spike protected mains outlets
- 2 rapid charge USB sockets 3.1A total
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre

See page 273 for Outdoor Powerboard Box



Specifications	MS-4100
Surge Protection	Metal oxide varistors
Supply Voltage	240VAC 50Hz

SAA approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	MS-4100	\$39.95	\$35.90	\$31.90

6 Way USB Powerboard

Charges up to 6 USB devices at a time and features a smart charging IC, which identifies the USB device connected and delivers the most suitable current for that device. It is compatible with numerous digital devices such as the most popular brands of MP3/MP4 players, portable gaming devices, digital cameras, Tablets, and Smartphones, including iPad®, iPhone®, and iPod® and Samsung®.

- Mains powered
- Power LED indicator

SAA approved

Specifications	MS-4068
Current Output	6.8A (Max)
	2 x 2.4A ports, 2 x 1A ports or 4 x 1.2A ports, 2 x 1A
Dimensions	190(L) x 40(W) x 32(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	MS-4068	\$39.95	\$35.90	\$31.90

4 & 6 Way Powerboards - Surge/Overload Protected

Individually switched powerboards provide a high level of protection from overload and surge, with extra-wide spacing to take bulky mains plugpacks. Ideal for home theatre, computers, TV and video or audio systems.



- Extra-wide spacing to take mains plugpacks
- Individually switched
- Surge and overload protected

Specifications - Power Filter	Both
Surge protection	Metal oxide varistors
Supply voltage	230-240VAC
Current rating	10A max
Surge Rating	375 Joule

POWERTECH

4 or 6 way available



SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	MS-4064	\$19.95	\$17.95	\$15.95
6 Way	MS-4066	\$24.95	\$22.35	\$20.95

4 Way Powerboards - Filter / Surge & Overload Protection

This powerboard offers 4 outlets, all filtered and surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.



Specifications	Both
Surge Protection	Metal oxide varistors
Supply Voltage	230-240VAC
Current Rating	10A max
Protection Mode	Active - Neutral
Max Surge Current	6000A
Typical Capacitance	430pF
Clamping Voltage	<775 @ 50A
Energy Absorption	175 joules
Approvals Number	N17298


- 4 Surge and Spike protected mains outlets
- 10 amp resettable overload circuit breaker
- Power on indicator in switch
- Cable length: 1 metre

Available in black or white

POWERTECH



SAA approved

		Cat.	Qty 1 +	Qty 4 +	Qty 10 +
4 Way	White	MS-4050	\$16.95	\$15.25	\$13.55
4 Way	Black	MS-4057	\$16.95	\$15.25	\$13.55

6 Way Mains Powerboard with 2 x Telephone Surge Protection

This 6 way powerboard has filters for protection of mains and telephone products: phones, modems, answering machines, cordless telephones, faxes. Ideal for protecting your computer and phone line from spikes and surges.

- 6 surge and spike protected mains outlets
- Telephone / data line surge and spike protection RJ45 sockets (RJ12 reducer included)
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre

Specifications	MS-4102
Surge Protection	Metal oxide varistors
Supply Voltage	240VAC 50Hz
Current Rating	10A max
Protection Mode	PN
Max Surge Current	6,000A
Energy Absorption	175 joules
Response Time	< 20 nanoseconds



SAA approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	MS-4102	\$29.95	\$26.95	\$23.70

POWERBOARDS (CONTINUED)

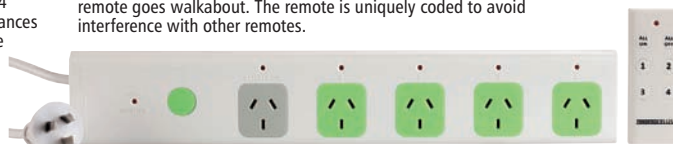
5 Way Remote Controlled Powerboard

Powerboards often sit in hard to reach places so they're usually hard to turn off in order to reduce wasteful power consumption from devices in standby mode. There are 4 switched sockets for general electrical appliances and 1 socket designed for appliances that always stay on such as telephones, modems, or medical equipment. With the

remote control, devices connected to the 4 switched sockets can be switched off/on individually or all 4 can be switched off simultaneously. LED status indicators sit above each socket and the board features a manual switch in the event your remote goes walkabout. The remote is uniquely coded to avoid interference with other remotes.

Powerboard Specifications	MS-6154
Rated Voltage	240VAC 50Hz
Total Load	10A 2400W
Overload Protection	10A resettable
Surge protection	30,000A 1050 Joules
Standby power consumption	<0.5W
Cord length	900mm
Dimensions	387(L) x 65(W) x 30(D)mm

Remote specifications	
Transmission frequency	433.92MHz
Includes	1 x CR2032 battery
Dimensions	97(L) x 39(W) x 15(D)mm



SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Way	MS-6154	\$69.95	\$62.95	\$55.95

6 Way Energy Saving Powerboard

Energy saving made simple. This auto powerboard helps save you money by ensuring your equipment is not left on unintentionally or in standby mode wasting energy and money. To operate, simply connect your main device (eg. TV or PC) into the control socket, plug the pieces of equipment you wish to turn off automatically into the 'auto' sockets and equipment you wish to leave on into the 'always on socket' (eg. DVR for scheduled recording). Once the powerboard senses that the main device has turned off or gone into stand-by the 'auto' sockets will turn off. Once the control device turns back on, so will the 'auto' sockets. Features an auto power-down feature where the 'auto' sockets turn off after 60 minutes. If no IR signal is detected from the IR sensor that you place under or in front of the TV within 55 minutes an LED will indicate that it will shut-down in 5 minutes time. To prevent shut down simply press any button on your remote control (eg. volume) or press the button on top of the IR sensor.

- 1 Control socket, 4 auto on/off sockets, 1 always on socket
- Automatically turns off your peripheral equipment
- Power on indicator light + board activated light
- LED Surge protection function indicator light
- IR sensor with 5 minute power down warning light

Specifications	MS-4080
Power rating	240VAC, 10A
Maximum load	2400W
Surge protection	700 joules
Clamping Voltage	775V
Response time	1ns
EMI/RF noise filtration	40dB
Power & IR cord (MS-4080) lengths	1.8m
Dimensions	340(L) x 120(W) x 35(D)mm



Note: Remote control not included

SAA approved

	Cat.	Qty 1+
6 Way Energy Saving Powerboard with IR Sensor for AV	MS-4080	\$39.95

10 Way Home Theatre Surge Protected Powerboard

Perfect addition for your home theatre, music gear or for home office setups. Features 10 surge and spike protected outputs, including 2 wide outputs for large power adaptors. Also includes 2 x USB ports for charging Smartphones and Tablets. Surge protection and EMI/RFI filtering are provided for the mains power to all your equipment and each socket is protected three ways: through active, neutral and earth. Additional protection is provided by the built-in circuit breaker. This powerboard also has telephone protection (1 input, two outputs so doubles as a splitter), data protection for a network connection, satellite / cable TV video protection, and protection for the TV antenna.

- 10 surge and spike protected outputs
- Separate telephone/data line and TV antenna/cable TV surge and spike protection
- 10 amp resettable overload circuit breaker
- Flame retardant enclosure
- Two outlets spaced further apart to accept larger power adaptors
- Dimensions: 360(L) x 125(W) x 32(H)mm

Leads included:

- 1.8m TV coax plug to TV coax plug
- 1.8m RJ45 to RJ45
- 1.8m RJ45 to RJ12
- 1.8m F61 plug to F61 plug



SAA approved



Power Filter	MS-4034	Telephone Line Protection	
Surge protection	Metal oxide varistors	Filter type	Gas tube arrestor
Supply voltage	230-240V	Surge current	1200A (1kV/μs)
Current rating	10A max. 2400W	Impulse discharge current	10KA (8/20μs)
Protection mode	A-N, N-E, E-A	Capacitance	<5pF
Max surge current	144,000A	Clamping voltage	600V
Typical capacitance	400pF	TV Surge Protection	Gas tube arrestor
Clamping voltage (@50A)	<775V	DC Strike Voltage	230 to max. 600 volts
Energy absorption	4300J	Surge current	4500A
Response time	< 2 ns	Energy Dissipation	225 joules
Filtration	EMI / RFI	Response Time	<10ns

	Cat.	Qty 1+	Qty 4+	Qty 10+
Surge Protection 10 Way 144,000A	MS-4034	\$79.95	\$71.95	\$63.95

WORKSTATION OUTLETS / POWERBLOCKS

2 Outlet Workstation Centre with USB 1A Socket

This innovative power adaptor fits into a standard 60mm desk grommet allowing the power cord to be discreetly run through the hole without cluttering your desk. It features 2 surge protected mains power sockets and 1 USB port for power. Installation takes just seconds with no tools required.

- Max Current: 10A
- Surge Protected to 175 joules
- USB Socket: 5V at 1A
- Power Cord Length: 900mm

SAA approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4082	\$34.95	\$31.45	\$27.90

4 Outlet Power Block with Securing Loops & USB

The unique securing loops ensure that you do not accidentally pull the plugs out from the sockets. Simply loop the cables through the fasteners to keep them in place. Also included is a 1A USB charging socket.

- 240VAC at 10A max
- USB Outlet: 5VDC at 1A
- Dust cover for USB socket
- Dimensions: 125(H) x 90(H) x 72(D)mm

SAA approved



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4083	\$49.95	\$44.90	\$39.90

MAINS OUTLET CONTROL & PROTECTION

Wi-Fi Controlled Smart Mains Socket

Have control over your electronic devices inside your home or office from anywhere! From lights to heater, from stereos to grooming devices, you can turn your plugged devices on or off from your Smartphone remotely. This Wi-Fi Controlled Mains Power Socket connects to your home Wi-Fi network, and to any internet enabled Smartphone. The APP gives you control over your devices, including a timer. MS-6124 contains power monitoring ability to the connected device as well as the common features shared between the two models.

Specifications	Both
Input	230V - 10A, 50Hz
Output	230V-10A max
Dimensions	125(L) x 70(W) x 50(D)mm

Features MS-6122

- Remote control - Turn on/off your electrical appliances from anywhere.
- Countdown Timer - Never over charge your electronics again.
- Anti-theft Timer - Pretend you are home and guard your house.
- Schedule Timer - Perform routine operation automatically for your home appliances.
- App available for both Android® and Apple® devices

Features MS-6124

- Power meter - Demonstrate power trend in different cycles.
- Remote control - Turn on/off your electrical appliances from anywhere.
- Countdown Timer - Never over charge your electronics again.
- Anti-theft Timer - Pretend you are home and guard your house.
- Schedule Timer - Perform routine operation automatically for your home appliances.
- APP available for Android® and iOS®

MS-6122



MS-6124



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wi-Fi Socket	MS-6122	\$59.95	\$53.95	\$47.90
Wi-Fi Socket with Power Meter	MS-6124	\$64.95	\$58.50	\$51.95

240V Mains Wi-Fi Wireless Switch Module with APP

Designed to transform your traditional one way mains power point into a modern Wi-Fi switch so you can control connect devices via your Smartphone, from anywhere. It features a schedule timer to automatically turn devices on and off, and a countdown timer to turn devices off after a pre-set time period. The App for this unit can be freely downloaded from Google® Play and App. Store.

System requirements:

- Wi-Fi router
- iPhone®, iPad®, or iPod® (iOS® 6.0 or higher)
- Android® devices with Android® 4.0 or higher

Specifications	MS-6126
Electrical rating	120V/15A/60Hz/1800W
Wi-Fi	2.4GHz 802.11b/g/n
Dimensions	53(W) x 50(L) x 16(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
15A 240VAC	MS-6126	\$49.95	\$44.90	\$39.90

Wireless 3 Outlet Mains Controller

Simply plug in any mains appliance rated up to 10A and use the remote to turn each one on or off individually, or control all of them together. One of the outlets also has an LED night light that's also operated with the remote, so you can see where you're going if you have to get up during the night for the elderly, disabled or for making sure the TV and other appliances are turned off at the mains before you go to bed.

- 433MHz
- Remote battery included
- 10A, 2400W rated
- Remote measures: 125(W) x 45(H) x 17(D)mm

MAINS OUTLET/LIGHT WITH REMOTE

	Cat.	Qty 1+	Qty 4+	Qty 10+
Wireless 3 Outlet Mains Controller	MS-6142	\$44.95	\$40.45	\$35.90
Mains Outlet/Light with Remote	MS-6145	\$24.95	\$22.35	\$19.70

MS-6145



Single RCD (Safety Switch) Outlet

RCDs (residual current devices), also commonly called safety switches, are designed to cut the power in a fraction of a second in the event of a fault condition, thereby preventing electrocution. The electricians in your house may be too old to have RCDs installed, or you might want to use a power tool outdoors on an outlet that doesn't have an RCD fitted - use this handy portable one instead. Buy one right now if you don't have RCDs already

Note: RCDs are not a substitute for common sense around mains electricity. While they will work in most situations, they may not in some cases and are not a substitute for current overload devices such as fuses and circuit breakers. Wiring, appliances, leads and power outlets must always be maintained in a safe condition.

- Test function
- Reset button
- 10A 240V rated

	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	MS-4013	\$27.95	\$24.95	\$22.35



MAINS OUTLET TIMERS

24 Hour Mechanical Mains Timer

Control any 240V mains appliance rated up to 10A. Turn the heater on before you get up in winter, turn the lights on or off when you're out or control a watering system. Simply push and rotate the dial to the time you want, then switch it on.

- Suits any 240V 10A GPO
- Size: 120(H) x 76(W) x 50(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	MS-6112	\$9.95	\$8.75	\$7.75

Mains Timer with LCD

2400W mains timer for automatically turning your appliances on and off at the correct times. The digital display means more features can be added for advanced timing as compared to mechanical versions.

- Up to 10 separate on/off programs
- Minimum 1 minute interval
- 12/24hr selectable
- 16 combinations of day or blocks of days available
- Random function available
- Ni-MH battery for >100hr program memory



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-6111	\$24.95	\$22.45	\$19.70



Digital Mains Timer Switch Modules

Ideal for automating your heating & lighting or practically any other switching application that requires multiple unattended switching cycles. The timer has eight on/off settings that can be programmed to function on any day, or combinations of days across the week. Each of the on/off settings can be set independently. Each On/Off setting can be associated with a range of days from a single day to every day, thus giving 56 possible on/off cycles per week. Two models available.

- 12VDC supply voltage
- Switching capacity:
16A @ 240VAC
Cat AA-0361
- 240VAC supply voltage.
- Switching capacity:
30A @ 240VAC
Cat AA-0362



	Cat.	Qty 1+	Qty 4+	Qty 10+
16A 12VDC	AA-0361	\$59.95	\$53.95	\$47.90
30A 240VAC	AA-0362	\$59.95	\$53.95	\$47.90

POWER & SMART ENERGY

POWER CONTROL & MONITORING

MONITOR YOUR POWER & SAVE

Mains Power Meter

This intelligent power meter simply plugs into a normal power point (GPO) and turns it into a real-time power monitoring outlet. You can enter the local price of your electricity and the meter will tell you exactly how much the appliance is costing to run. In addition, the power meter tracks the power used and can display the instantaneous voltage or current being drawn as well as the peak levels that have been drawn. The meter has backup batteries so it will not lose the stored data during a blackout or moving from point to point.

- Simple to install and a valuable tool for monitoring your power consumption



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	MS-6115	\$21.95	\$19.70	\$17.35

Deluxe Large Screen Power Meter with 1m Extension Lead

This deluxe power meter allows you to monitor the energy consumption of an appliance with the added convenience of being able to read the large LCD screen via an extension cord. It will instantly display the voltage, wattage or cost usage of your hard to reach appliances such as fridges, heaters or dishwashers.

- Easy to read large display
- Max load: 10A/2400W
- Supplied with 1m extension cable
- Dimensions: 160(L) x 73(W) x 38(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	MS-6119	\$34.95	\$31.45	\$27.90

Elite Household Power Monitor



Take command of your power usage and reduce your power bills with this household power monitor. It's common knowledge that energy costs are always rising, and the best and cheapest way to reduce your energy costs is by reducing your energy consumption. By using one of these fantastic power monitors, you can be informed with live power usage information and adapt your energy usage habits to reduce your power bills. There is no tricky wiring involved either; a wireless transmitter is installed in your meter box with a sensor that simply clips over the main power wire (no cutting!), which then measures the current flow and sends that information wirelessly to the indoor display. The indoor display then shows the live power consumption as well as a whole host of other features. Each monitor works with single or 3-phase (extra sensor pack MS-6201 needed for 3-phase).

The MS-6200 power monitor is the most basic in the range, with all the power data received by the indoor LCD display and stored internally on that display. The indoor LCD display gives you clear live power consumption, live running costs, stores your usage by day/week/month, and calculates your average daily, weekly and monthly power and running costs. You can program multiple tariffs as well, for those on time-of-use metering. The kit includes weatherproof transmitter with CT sensor and indoor LCD display. Transmitter and LCD display each powered by 3 x AA batteries (required).

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	MS-6200	\$119.00	\$106.95	\$94.95

Home Hub Online Household Power Monitor, with App



This Home Hub is the ultimate solution for the most tech savvy users, allowing you to monitor your power use in real time from anywhere with an internet connection! All you need is your Smartphone/Tablet/PC, an internet connection, and you can view your energy monitor from anywhere in the world. It combines all the features you would expect from a household power monitor, but uses your internet enabled device to display the data rather than a separate LCD display. It still has the transmitter in the meter box like other Efergy units, which transmits to the Engage Hub that is connected to your internet router, which then uploads the data to cloud server. The app/website then gives you dashboards with real time power use, historical charts, daily/weekly/monthly use and costs, power limit warnings, and much more.



The kit includes wireless transmitter with CT sensor, Home Hub, AC power supply, and Ethernet cable. Transmitter powered by 3x AA batteries (required).

The Home Hub is able of monitoring up to 5 transmitters, so you can measure your home energy use and also the output from your rooftop solar system, for example.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	Power Monitor MS-6204	\$129.00	\$115.95	\$102.95

Home Hub Solo - Hub Only

If you like the idea of the online Engage Hub, but also want the convenience of an "always on" LCD display in the home, you can simply install the MS-6200 Elite Power Monitor, and then add the MS-6205 Engage Home Hub Only. The MS-6205 Engage Hub will then link to the transmitter from the MS-6200 Elite Monitor, giving you both the LCD display and the link to your Smartphone/Tablet/PC.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	MS-6205	\$99.95	\$89.95	\$79.95



Workbench sent to us by: Chris Jaycar Store: Werribee

Replacing the heatsinks on some graphics cards. Custom water loop cooling is the way to go!

For more details, visit:
www.jaycar.com.au/workbench

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ECLIPSE ALKALINE BATTERIES



Eclipse batteries are made to the same specifications of those well known expensive brands advertised on TV, but at a realistic price. We are very, very proud of these products and stand behind them unconditionally. If you try them & are disappointed with them for any reason we will give you a full refund and another set of ECLIPSE batteries to see if you can work out what went wrong!

ALKALINES - AAA



SB-2426
• Blister pack of 2 x AAA



SB-2328
• Contains 40 x AAA

ALKALINES - AA



SB-2332
• Contains 40 x AA



SB-2329
• Contains 24 x AA

↑ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	AAA	SB-2426	\$1.95	\$1.75	\$1.55
4	AAA	SB-2413	\$3.95	\$3.45	\$3.15
12	AAA	SB-2334	\$8.95	\$8.05	\$7.15
24	AAA	SB-2331	\$13.95	\$12.55	\$11.15
40	AAA	SB-2328	\$17.95	\$15.95	\$14.35

↑ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	AA	SB-2424	\$1.95	\$1.75	\$1.55
4	AA	SB-2425	\$3.95	\$3.45	\$3.15
12	AA	SB-2333	\$8.95	\$8.05	\$7.15
24	AA	SB-2329	\$13.95	\$12.55	\$11.15
40	AA	SB-2332	\$18.95	\$17.05	\$15.15

ALKALINES - C



SB-2416
• Blister pack of 2 x C



SB-2320
• Contains 4 x C

↑ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	C	SB-2416	\$3.95	\$3.45	\$3.15
4	C	SB-2320	\$6.95	\$6.25	\$5.50

ALKALINES - D



SB-2418
• Blister pack of 2 x D



SB-2321
• Contains 4 x D

↑ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	D	SB-2418	\$4.95	\$4.45	\$3.95
4	D	SB-2321	\$8.95	\$8.05	\$7.15

ALKALINES - 9V



SB-2423
• Blister pack of 1 x 9V



SB-2417
• Contains 6 x 9V

↑ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
1	9V	SB-2423	\$3.95	\$3.45	\$3.15
6	9V	SB-2417	\$14.95	\$13.45	\$11.95

PREMIUM ALKALINE BATTERIES

Panasonic® Batteries

Panasonic® is not a name that you instantly associate with high performance batteries, but we have come to learn that in fact Panasonic® has been manufacturing batteries for many many years, providing OEM manufacturing and strong research & development for many of the big brands you know and recognise. But now they have decided to keep their latest technology for themselves, and launch into the market under their own brand.

These new Panasonic® Evolta® batteries currently hold an internationally recognised record for the longest lasting AA alkaline battery - yes we know that everyone makes these sorts of claims,

but they have the test results to verify it! If you don't believe us, test them for yourself, we are sure you will be impressed!

Having said that, the prices are quite competitive, considering the outstanding performance of the Evolta® product. We are confident that with a name like Panasonic® you can be confident about quality! So if using brand-name batteries is important to you we would love you to try the Panasonic® Evolta® alkaline range.

Panasonic
EVOLTA

↑ Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 20+
AAA	2	SB-2906	\$3.95	\$3.55	\$3.15
AAA	4	SB-2908	\$6.95	\$6.25	\$5.55
AAA	8	SB-2910	\$11.95	\$10.75	\$9.55
AA	2	SB-2900	\$3.95	\$3.55	\$3.15
AA	4	SB-2902	\$6.95	\$6.25	\$5.55
AA	8	SB-2904	\$11.45	\$10.30	\$9.15
AA	20	SB-2905	\$24.95	\$22.45	\$19.95
C	2	SB-2912	\$8.95	\$8.05	\$7.15
D	2	SB-2914	\$10.95	\$9.85	\$8.75
9V	ea	SB-2916	\$9.95	\$8.95	\$7.95



POWER & SMART ENERGY

ALKALINE & CORDLESS PHONE BATTERIES

ALKALINE BATTERIES (CONTINUED)

6, 9, 12V Alkaline Batteries

- Blister packed

(A) 12V CAR ALARM REMOTE CONTROL BATTERY - A23

TYPE/L1028/SLR23/GP23A (HOUSE BRAND)

As used in remote controls for most car alarms. Size 9.5mm dia x 27mm high. See photo "A".



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB-2420	\$1.95	\$1.75	\$1.55

(B) 12V THIN CAR ALARM REMOTE CONTROL BATTERY - L828 TYPE

As used in new generation small sized car alarm remote controls. Size 8mm dia x 28mm high. See photo "B".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L828	SB-2422	\$3.20	\$2.83	\$2.45

(C) 6V ALKALINE BATTERY - L1325/4LR44 TYPE

These are the same size as A544 batteries. Used mainly in cameras. Size 13mm dia x 25mm. See photo "C".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1325/4LR44	SB-2415	\$3.25	\$2.90	\$2.60

(D) 6V ALKALINE BATTERY

No L1016/11A. Size: 9.5mm dia x 15mm high. See photo "D".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1016/11A	SB-2421	\$2.95	\$2.60	\$2.30

(E) 9V ALKALINE BATTERY - GP29A/L822 TYPE

General purpose remote control battery. Size: 7.7(dia) x 21.4(L)mm Capacity 18mAh. See photo "E".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
GP29A/L822	SB-2427	\$3.95	\$3.45	\$3.15

12V Panasonic Alkaline

Car alarm battery.

- LRV08, A23, L1028.



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB-2970	\$3.95	\$3.55	\$3.15

N Size Extra Heavy Duty Zinc Chloride - Vinnic

These batteries are superior to standard carbon-zinc cells but are much cheaper and have a longer shelf life.

- Blister Packed



Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 20+
N	2	SB-2346	\$3.45	\$3.05	\$2.75

Eclipse Lantern Battery

A 6 volt heavy duty battery as used in many torches including the very popular Dolphin.

- Carbon zinc battery



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-2394	\$5.45	\$4.90	\$4.30

MICROCHIP MILESTONES

A SHORT STORY

Many of you know that I worked for Dick Smith at Dick Smith Electronics for the second half of the 70's. I had a great time there and learnt a lot - much of which I applied at Jaycar. But that's another story!

Before I worked for Dick I basically worked in the industrial electronics industry, mainly as a technical sales representative. I was lucky to have worked at the tail end of the massive post WWII manufacturing boom.

A company that I worked for at the time had a portfolio of the most interesting and technical products you can imagine. On one day I might be at CSIRO Radiophysics in Epping, Sydney talking to scientists about millimetre wave waveguides or ferrite circulators, or I would be at STC Liverpool in Sydney selling them premixed epoxy resin powder, frozen at -4°C so that it did not go off before it went into an injection moulding machine. This epoxy was used to encapsulate IN4000 and IN5400 series diodes to make them almost hermetic.

CORDLESS TELEPHONE BATTERIES

Telephone Batteries to Suit Uniden Phones

A collection of replacement batteries suitable for Uniden cordless phones. All are heat shrink wrapped with suitable connectors so it's a simple drop in replacement.



2.4V 800mAh Ni-MH - 80AAM2BMS SB-1651

2.4V 650mAh Ni-MH CTB97 - 65AAAH2BMS SB-1653

2.4V 650mAh Ni-MH CTB96 - 65AAAH2BMJ SB-1654

↑		Cat.	Qty 1+	Qty 10+	Qty 20+	
	2.4V / 800mAh	80AAM2BMS	SB-1651	\$17.95	\$15.95	\$14.35
	2.4V / 650mAh	65AAAH2BMS	SB-1653	\$17.95	\$15.95	\$14.35
	2.4V / 650mAh	65AAAH2BMJ	SB-1654	\$17.95	\$15.95	\$14.35

Cordless Telephone Batteries – Extended Range

Replacement batteries for cordless telephones.

3.6V 600mAh Ni-MH

- Nominal voltage 3.6V • Nominal capacity 600mAh
- Bank of three batteries next to each other
- Dimensions: 30(H) x 14(W) x 41(L)mm
- Supplied with lead and two pin Mitsumi plug.
- Suits Panasonic KXT3716, 3806, 3826, 4026, 4027, 4036, 4046, 4047, 4300 & 4317
- Uniden CT301, XC360, XC310, XC320, XC340, XC610
- Also suits various Sony & James Hardie phones.



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1645	\$12.95	\$11.35	\$10.35

3.6V 650mAh Ni-MH

- Nominal voltage: 3.6V
- Suitable for Panasonic KXTC1220/KXTC1230
- GP Battery No. GP65AAAH3BMS



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1646	\$16.95	\$15.25	\$13.55

3.6V 1000mAh Ni-Cd

- Nominal voltage: 3.6V
- Suitable for Panasonic KX-TC1801 - KT-TC1890
- GP Battery No. GP100AAS3BMS



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1648	\$17.95	\$15.95	\$14.35

3.6V 850mAh Ni-MH

- Nom voltage 3.6V
- Suitable for Uniden WDECT2315 - WDECT2310, DSS5805, 5855, 5865
- GP battery No. GP85AAALH3BMS



Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1634	\$28.95	\$25.95	\$22.95

LITHIUM BATTERIES

Eclipse Plus Lithium AAA 1.5V Battery Packs

This range of Lithium Iron Disulfide (LiFeS₂) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

- Not rechargeable

Specifications	Both
Capacity	>1200mAh
Max constant load	1500mA
Max pulse load	2000mA
Terminal voltage	1.5V

↑	Pkt.	Cat.	Qty 1+	Qty 10+	Qty 20+
AAA	2	SB-2351	\$10.95	\$9.85	\$8.75
AAA	4	SB-2352	\$19.95	\$17.95	\$15.95



Eclipse Plus Lithium AA 1.5V Battery Packs

This range of Lithium Iron Disulfide (LiFeS₂) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

- Not rechargeable

Specifications	Both
Capacity	>3000mAh
Max constant load	2000mA
Max pulse load	3000mA
Terminal voltage	1.5V

↑	Pkt.	Cat.	Qty 1+	Qty 10+	Qty 20+
AA	2	SB-2355	\$12.95	\$11.65	\$10.35
AA	4	SB-2357	\$21.95	\$19.75	\$17.55



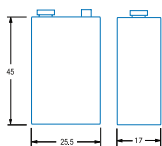
Eclipse Lithium 9V Battery 1200mAh

As you know, lithium batteries are essential for such things as smoke detectors, wireless alarm systems, garage door opener remotes etc. They are a bit more expensive, but your family's lives are worth a couple of bucks.

Available in single or twin pack:

- Not rechargeable.

Please note that the physical size of these batteries is slightly different to standard 9V batteries.



↑	Pkt.	Cat.	Qty 1+	Qty 8+	Qty 15+
9V	Single	SB-2397	\$14.95	\$13.35	\$11.70
9V	2	SB-2396	\$25.95	\$23.35	\$20.70

1.5V Lithium Long Lasting Batteries

The perfect power source for high drain current draw cameras, camcorders, personal stereos, mobile phones, palm top computers and TVs.

- Up to 3 times the life of any alkaline battery.
- Up to 10 times the life of ordinary carbon zinc battery
- Guaranteed shelf life up to 10 years.
- 1.5V, 1.4Amp hour (AA).
- Blister Packed
- Not rechargeable.

Made in Singapore **Energizer**



↑	Pkt.	Cat.	Qty 1+	Qty 8+	Qty 15+
AAA	2	SB-2372	\$19.95	\$17.95	\$15.95
AA	2	SB-2375	\$19.95	\$17.95	\$15.95

CR123A 3V Lithium Batteries 6 Pack

Contains 6 CR123A lithium camera batteries, commonly used in LED torches and cameras.

- Not rechargeable



↑	Pkt.	Cat.	Qty 1+	Qty 8+	Qty 15+
CR-123A	6	SB-2324	\$17.95	\$15.95	\$14.35

Lithium Camera Batteries

Blister Packed

- Not rechargeable.

Cat.	Type	Volt	Current
SB-2400	CR123A	3V	1300mA
SB-2401	CR-P2	6V	1300mA
SB-2402	2CR5	6V	1300mA
SB-2404	CR2	3V	750mA



↑	Cat.	Qty 1+	Qty 8+	Qty 15+	
	CR123A	SB-2400	\$4.95	\$4.45	\$3.90
	CR-P2	SB-2401	\$11.95	\$10.75	\$9.55
	2CR5	SB-2402	\$9.95	\$8.75	\$7.75
	CR2	SB-2404	\$5.95	\$5.35	\$4.75

Panasonic® Lithium Camera Batteries

- Not rechargeable.

Cat.	Type	Volt	Current
SB-2980	CR123	3V	1500mA
SB-2982	CR2	3V	800mA



Panasonic

⬆	Cat.	Qty 1+	Qty 10+	Qty 20+	
	CR123	SB-2980	\$9.95	\$8.75	\$7.75
	CR2	SB-2982	\$11.95	\$10.75	\$9.55

TECH TALK!

LITHIUM CAN BE DANGEROUS

All the batteries on this page are non-rechargeable. Do not try to recharge any of these lithium batteries.

There are basically two types of lithium batteries: rechargeable and non-rechargeable. Rechargeable batteries are usually referred to as Lithium-Ion or Lithium Polymer. The ONLY WAY to recharge such batteries is with a dedicated charger for the particular battery size, such as CRV-3 or CR123A types. Such chargers are specifically designed to strictly manage the special charge rate requirements for rechargeable lithium ion or lithium polymer cells.

Standard Lithium non-rechargeable batteries are not designed to be recharged - even with a Lithium-Ion or Lithium-Polymer charger. Indeed there is a VERY HIGH likelihood that the battery will violently EXPLODE if any attempt is made to charge a standard Lithium battery. DO NOT try to recharge ANY lithium battery with an undedicated charger, such as lead acid or Ni-Cd charger, under any circumstances. All batteries on this page are non-rechargeable. Do not try to recharge any of these lithium batteries.

COMPUTER BACKUP

3.6V Lithium Computer Backups

These high capacity batteries are used in many desktop and notebook computers to retain date, time and configuration information while the computer is switched off. They are also useful where long shelf life is important or when the battery is to be fitted into difficult or sealed access areas. Storage life is up to 10 years.

- 14.5mm diameter
- Not rechargeable.



Cat.	Size	Capacity (mAh)	Max Current (mA)	Height Connect (mm)
SB-1770	Half AA	900	50	25mm Nipple
SB-1771	Half AA	900	50	25mm Axial Lead
SB-1774	AA	2000	100	50mm Nipple
SB-1775	AA	2000	100	50mm Axial Lead

⬆	Cat.	Qty 1+	Qty 10+	Qty 20+	
	Half AA	SB-1770	\$11.95	\$10.70	\$9.50
	Half AA	SB-1771	\$13.95	\$12.35	\$10.95
	AA	SB-1774	\$16.95	\$14.95	\$13.35
	AA	SB-1775	\$18.95	\$16.95	\$14.95

TECH TALK!!

LiFePO₄ EXPLAINED

Lithium iron phosphate (LiFePO₄) is a technology proving to overcome the safety concerns that exist with Lithium ION (Li-ION) and other lithium battery technologies because it is chemically more stable. In particular, LiFePO₄ is able to deliver extremely high surge currents without risk of the battery chemistry breaking down (and the battery exploding), holds a charge for a very long time, and is far more stable when exposed to high heat and other environmental conditions.

POWER & SMART ENERGY

BUTTON & COIN CELL BATTERIES

BATTERY TYPE COMPARISON

TYPE (CHEMISTRY)	COMMON NAME(S)	NORMAL CELL VOLTS	INTERNAL RESISTANCE	MAX DISCHARGE RATE	PROS & CONS	TYPICAL APPLICATION
Carbon-Zinc	Standard Duty	1.5	MEDIUM	MEDIUM	Low cost, available in various sizes; but terminal voltage drops steadily during cell life.	Torches, radios, toys, & general purpose, electronic equipment.
Zinc Chloride	Heavy Duty	1.5	LOW	MEDIUM TO HIGH	Low cost, better at higher discharge rates & at lower temperatures; terminal voltage still drops.	Cassette tape players/recorders & other motor-driven items, clocks, calculators, remote controls, multimeters, etc.
Alkaline - Zinc-Manganese Dioxide	Alkaline	1.5	VERY LOW	HIGH	Better for high continuous or pulsed loads and at low temperatures; but terminal voltage again drops.	Heavy duty torches, photoflash units, battery shavers, digital cameras, hand-held transceivers, portable CD players etc.
Lithium-Manganese Dioxide	Lithium	3.0	LOW	MEDIUM TO HIGH	High energy density, very low self-discharge rate (excellent shelf life) good temperature tolerance.	Watches, calculators, cameras (digital & film), DMMs, and other test instruments.
Zinc-Mercuric Oxide	Mercury Cel	1.35	LOW	LOW	High energy density (compact); very flat discharge curve; good at higher temperatures.	Calculators, pagers, hearing aids, watches, test instruments (voltage reference).
Zinc-Silver Oxide	Silver Oxide Cell	1.5	LOW	LOW	High energy density (very compact); very flat discharge curve; reasonable at lower temperatures.	Calculators, pagers, hearing aid, watches, test instruments (voltage reference).
Zinc-Oxygen	Zinc Air Cell	1.45	MEDIUM	LOW	High energy density, very lightweight; flat discharge curve; but must have access to air.	Hearing aids and pagers.

BUTTON CELL BATTERIES

1.5V Silver Oxide Batteries

These batteries generally have a protective layer of silicon on them. Please wipe with a cloth and avoid touching with fingers before installing them.



Type #	Capacity	Eveready	Vinnic	Maxell	IEC	Other	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
357	155mAh	357	S1154E	SR44W	SR44	613/RW12/32/S1154S	ea	11.6 x 5.4	SB-2512	\$1.95	\$1.75	\$1.55
362	21mAh	362	S721E	S721SW	SR58	SG11/SR720/532/19/RW310	ea	7.9 x 2.1	SB-2530	\$1.95	\$1.75	\$1.55
364	20mAh	364	S621E	S621SW	SR60	SG1/SR620/531/31/RW320	ea	6.8 x 2.1	SB-2501	\$1.95	\$1.75	\$1.55
371	44mAh	-	-	SR920SW	SR69	SG6/537/30/RW315	ea	9.5 x 2.1	SB-2534	\$1.95	\$1.75	\$1.55
377	27mAh	-	-	SR626SW	SR66	SG4/37	ea	6.8 x 2.6	SB-2504	\$1.95	\$1.75	\$1.55
389	60mAh	-	-	SR1130SW	SR54	RW49/AG10/G10/SG10/554/390	ea	11.6 x 3.05	SB-2508	\$1.95	\$1.75	\$1.55
391	40mAh	-	-	SR1121W	SR55	SG8/68/553/28/RW40	ea	11.6 x 2.1	SB-2542	\$1.95	\$1.75	\$1.55
392	38mAh	-	-	SR41W	SR41	SG3/63/547/2/RW27/RW47	ea	7.9 x 3.6	SB-2502	\$1.95	\$1.75	\$1.55
393	65mAh	-	-	SR754W	SR48	SG5/65/546/15/RW28/RW48	ea	7.9 x 5.4	SB-2532	\$1.95	\$1.75	\$1.55
396	25mAh	-	-	SR726W	SR59	SG2/556/29/RW411	ea	7.9 x 2.6	SB-2510	\$1.95	\$1.75	\$1.55
399	42mAh	-	-	SR927W	SR57	SG7/SR926/543/35/RW413	ea	9.5 x 2.7	SB-2536	\$1.95	\$1.75	\$1.55

1.5V Alkaline Batteries



Type #	Capacity	Eveready	Vinnic	Maxell	VARTA	Other	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
LR936	45mAh	-	-	LR45	-	AG9	ea	9.5 x 3.6	SB-2513	\$1.50	\$1.35	\$1.20
LR43	90mAh	166	-	LR43	V12GA	-	ea	11.6 x 4.2	SB-2514	\$1.50	\$1.35	\$1.20
LR44	120mAh	A76	-	LR44	V13GA	357A	ea	11.6 x 5.4	SB-2516	\$1.50	\$1.35	\$1.20
LR44 (Panasonic)	120mAh	LR44	-	LR44	V13GA	357A	ea	11 x 5	SB-2950	\$3.95	\$3.55	\$3.15

3V Lithium Batteries

- Not rechargeable.



Type #	Capacity	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
CR1220	30mAh	ea	12 x 2.0	SB-2527	\$2.95	\$2.60	\$2.30
CR1616	45mAh	ea	16 x 1.5	SB-2525	\$2.95	\$2.60	\$2.30
CR1620	50mAh	ea	16 x 2.0	SB-2526	\$2.95	\$2.60	\$2.30
CR1632	150mAh	ea	16 x 3.2	SB-2529	\$2.95	\$2.60	\$2.30
CR2016	60mAh	ea	20 x 1.6	SB-2524	\$2.95	\$2.60	\$2.30
CR2025	110mAh	ea	20 x 2.5	SB-2520	\$2.95	\$2.60	\$2.30
CR2032	140mAh	ea	20 x 3.2	SB-2522	\$2.95	\$2.60	\$2.30
CR2450 (Eclipse)	575mAh	ea	25.5 x 5.0	SB-2946	\$5.95	\$5.25	\$4.75
CR2430	270mAh	ea	24.5 x 3.0	SB-2523	\$2.95	\$2.60	\$2.30

3V Lithium Batteries

- Panasonic

- Not rechargeable.



Panasonic

Type #	Capacity	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 10+	Qty 20+
CR2016	90mAh	ea	20 x 1.6	SB-2940	\$4.95	\$4.45	\$3.90
CR2025	165mAh	ea	20 x 2.5	SB-2942	\$4.95	\$4.45	\$3.90
CR2032	220mAh	ea	20 x 3.2	SB-2944	\$4.95	\$4.45	\$3.90

Standard Button Cell Holder

PCB mount holder, suits button cells, with diameter up to 20mm, which includes the 3V lithium batteries.



*May vary slightly to one shown.

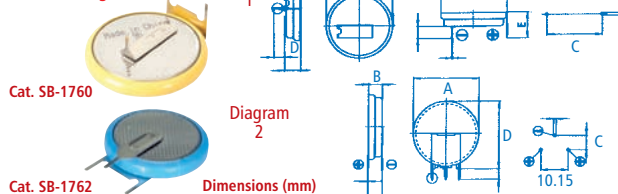
	Cat.	Qty 1+	Qty 10+	Qty 25+
↑	PH-9238	\$1.95	\$1.75	\$1.55

3V PCB Mounting Lithium Coin Batteries

Two of the most popular solder-in PCB mounting type batteries.

All 3 volt.

- Not rechargeable.



Capacity	Part No.	Diag.	Cat.	A	B	C	D
200mAh	CR2032VC	2	SB-1762	20	3.2	3.5	21
400mAh	CR2430-HC-33	1	SB-1760	24.5	24.7	17.8	9.45
540mAh	CR2540NRH	2	SB-1622	24.5	24.5	17.8	11.35

↑	Part No.	Capacity	Cat.	Qty 1+	Qty 10+	Qty 20+
	CR2430-HC-33	400mAh	SB-1760	\$3.95	\$3.45	\$3.15
	CR2032VC	200mAh	SB-1762	\$2.45	\$2.15	\$1.95
	CR2540NRH	540mAh	SB-1622	\$5.75	\$4.95	\$4.60

NICKEL METAL HYDRIDE Ni-MH RECHARGEABLE BATTERIES

Nickel Metal Hydride (Ni-MH) batteries offer superior features to nickel cadmium (Ni-Cd) rechargeable batteries. These features include:

- No memory effect
- Higher current capacities
- High drain performance

AAA SIZE



AA SIZE



*Supplied in Blister Packs

Size	Current Capacity mAh	V	Per	Charging Rate Slow 15 Hours	Charging Rate Standard 5 Hours	Charging Rate Fast 1.5 Hours	Terminal Type	Cat. No.	Qty 1+	Qty 8+	Qty 15+
AAA	900	1.2	EA	90	270	900	Nipple	SB-1723	\$2.95	\$2.60	\$2.30
AAA	900	1.2	EA	90	270	900	Solder tabs	SB-1724	\$3.95	\$3.45	\$3.15
AA	2000	1.2	EA	200	650	2000	Nipple	SB-1706	\$4.25	\$3.75	\$3.30
AA	2000	1.2	EA	200	650	2000	Solder tabs	SB-1708	\$4.45	\$3.95	\$3.45
AA	2400	1.2	EA	240	750	2400	Solder tabs	SB-1728	\$4.95	\$4.45	\$3.90
AA	2500	1.2	EA	260	800	2500	Nipple	SB-1744	\$5.95	\$5.25	\$4.75
AAA	900	1.2	Pkt 4*	90	270	900	Nipple	SB-1739	\$11.95	\$10.75	\$9.55
AA	2000	1.2	Pkt 4*	200	650	2000	Nipple	SB-1737	\$15.95	\$14.35	\$12.70
AA	2500	1.2	Pkt 4*	260	800	2500	Nipple	SB-1738	\$19.95	\$17.95	\$15.95
Size	Current Capacity mAh	V	Per	Charging Rate Slow 15 Hours	Charging Rate Standard 5 Hours	Charging Rate Fast 1.5 Hours	Terminal Type	Cat. No.	Qty 1+	Qty 8+	Qty 15+
4/3 A	3500	1.2	EA	350	1050	3500	Solder tabs	SB-1711	\$9.95		
SUB C	3300	1.2	EA	350	670	3300	Solder tabs	SB-1611	\$8.95	\$7.95	\$6.95
D	5000	1.2	EA	500	1500	5000	Nipple	SB-9010	\$12.95	\$11.35	\$10.35
D	9000	1.2	Pkt 2*	900	3000	9000	Nipple	SB-1734	\$44.95	\$40.45	\$35.90
SUB C	2400 ¹	1.2	EA	240	740	2400	Solder tabs	SB-1617	\$6.95	\$6.25	\$5.50
9V	200	8.4	EA	20mA	60mA		Clip	SB-2467	\$13.95	\$12.55	\$11.15
C	4500	1.2	Pkt 2*	450	1500	4500	Nipple	SB-1733	\$22.95	\$20.65	\$18.35

Note 1: Cat. SB-1617 high power battery with peak pulse discharge up to 30A and constant current discharge to 15A. All Sub C & D size Ni-MH batteries have new heavy duty solder tabs.

4/3A SIZE



SUB C SIZE

C SIZE



SB-1611

SB-1617

SB-1733

D SIZE

9V SIZE



SB-9010

SB-1734

SB-2467

Panasonic Eneloop Ni-MH Pre-Charged Rechargeable Batteries

This range of Panasonic Eneloop batteries have numerous advantages over regular rechargeables. Key characteristics include low self-discharge, they are pre-charged so can be used right out of the packet, and can be recharged up to 1800 times. After 5 years of storage they will retain 70% of their capacity once fully charged. A far more environmentally friendly option than churning through dozens of alkalines.

PANASONIC ENELOOP NI-MH
1.2V 2000MAH - AA 2 PACK
SB-2930

PANASONIC ENELOOP NI-MH
1.2V 2000MAH - AA 4 PACK
SB-2931

PANASONIC ENELOOP NI-MH
1.2V 800MAH - AAA 2 PACK
SB-2932

PANASONIC ENELOOP NI-MH
1.2V 800MAH - AAA 4 PACK
SB-2933



↑		Cat.	Qty 1+	Qty 8+	Qty 15+	
	AA 2000mAH	Pack 2	SB-2930	\$16.95	\$15.25	\$13.55
	AA 2000mAH	Pack 4	SB-2931	\$29.95	\$26.95	\$23.95
	AAA 800mAH	Pack 2	SB-2932	\$16.95	\$15.25	\$13.55
	AAA 800mAH	Pack 4	SB-2933	\$32.95	\$29.65	\$26.35

Panasonic XX High Capacity Eneloop Ni-MH 1.2V - 4 Packs

For even more demanding applications the Panasonic XX High Capacity range are perfect. They provide a massive 2500mAh capacity (AA size), can be recharged 500 times, and will retain 75% of their capacity after a year in storage. They can also be used in sub-zero temperatures (-20°C) without issue. The high capacity allows you to take up to 5x more pictures with your digital camera.

900MAH - AAA 4 PACK
SB-2938

2500MAH - AA 4 PACK
SB-2936



See page 285
for an Eneloop
Battery Charger

↑		Cat.	Qty 1+	Qty 8+	Qty 15+	
	AAA 900mAH	Pack 4	SB-2938	\$39.95	\$35.95	\$31.95
	AA 2500mAH	Pack 4	SB-2936	\$33.95	\$30.55	\$27.15

RELATED PRODUCTS

FROM
\$13.95
TS-1465



SOLDERING IRON

P38

FROM
\$44.95
MB-3563



ENELOOP CHARGER

P285

FROM
\$1.95
NS-3008



SOLDER

P43

FROM
\$4.45
HB-6359



BATTERY CONTAINERS

P287

POWER & SMART ENERGY RECHARGEABLE BATTERIES

NI-MH RECHARGEABLE BATTERIES (CONTINUED)

USB Rechargeable Batteries

These 1500mAh AA size batteries simply plug into any powered USB port to be recharged. They're a brilliant idea for battery operated PC input devices such as a mouse or keyboard.

- 1.2V
- USB adaptor included
- Supplied as pack of 2



⬆		Pack	Cat.	Qty 1+	Qty 8+	Qty 15+
	AAA	600mAh	2	SB-1757	\$19.95	\$17.95
	AA	1500mAh	2	SB-1756	\$19.95	\$17.95

Long Life Pre-Charged Rechargeable Batteries - 1.2V

Like the Panasonic Eneloop batteries, this has all the benefits of disposable batteries, but are rechargeable - it features ultra-low self-discharge technology so they can be used immediately after purchase. It retains 85% of initial capacity after 1 year of storage, are environmentally friendly and is ideal for the most demanding of modern digital devices.

- Supplied in a protective storage case

TECH TALK!

Will stay charged even when stored for long periods



↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	AA Single - 2000mAh Solder Tags	SB-1751	\$4.95	\$4.45	\$3.90

7.2V 3300mAh Ni-MH RC Battery

High capacity, high current discharge Ni-MH pack for radio control cars. Fitted with standard "Tamiya" type plug.



↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	Sub C 3300mAh	SB-2314	\$49.95	\$44.90	\$39.90

High Discharge 3300mAh Ni-MH Sub C Battery

Perfect replacement for Ni-Cd batteries in power tools and other battery packs. This high discharge Sub C can discharge at over 40A making it clearly superior to the old Ni-Cd technology, effectively making it obsolete. Supplied fitted with quality solder tabs to make into battery packs either as replacements for Ni-Cd batteries or for new projects.



↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	Sub C 3300mAh	SB-1611	\$8.95	\$7.95	\$6.95

NI-CD RECHARGEABLE BATTERIES

Ni-Cd Rechargeable Battery Sub C

Specifications	SB-2468
Size	SUB C
Current Capacity	1800mAh
Voltage	1.2V
Charging rate standard	180mA for 14-16 hours ¹
Charging rate Fast 4-5 hours ¹	600mA
Terminal type	Solder tabs

Note 1: At 20°C

Note 2: Similar to batteries used in the Braun electric toothbrush (2 required).



↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	Sub C 1800mAh	SB-2468	\$7.95	\$7.15	\$6.35

Rechargeable 3V CR123A

Rechargeable CR123A 650mAh battery

- Use charger MB-3581

See our charger to suit on page 286



↑	Type	Cat.	Qty 1+	Qty 10+	Qty 20+
	CR123A 650mAh	SB-2411	\$14.95	\$13.45	\$11.95

LI-ION RECHARGEABLE BATTERIES

Rechargeable Li-ion batteries

Choose between nipple or solder tabs to make into battery packs for replacement or new projects. Commonly used in LED torches.

14500 800MAH 3.7V SOLDER TAG

- Dimension: 48(L) x 8(Dia.)mm

SB-2300

14500 800MAH 3.7V SOLDER TAG

- Dimension: 48(L) x 8(Dia.)mm

SB-2301

18650 2,600MAH 3.7V NIPPLE

- Dimension: 65(L) x 18(Dia.)mm

SB-2308

18650 2,600MAH 3.7V SOLDER TAG

- Dimension: 65(L) x 18(Dia.)mm

SB-2313

26650 3,400MAH 3.7V NIPPLE

- Dimension: 68(L) x 21(Dia.)mm

SB-2315

26650 3,400MAH 3.7V SOLDER TAG

- Dimension: 68(L) x 21(Dia.)mm

SB-2319



↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	14500 800mAh 3.7V Nipple	SB-2300	\$9.95	\$8.95	\$7.95
	14500 800mAh 3.7V Solder	SB-2301	\$10.95	\$9.85	\$8.75
	18650 2600mAh 3.7V Nipple	SB-2308	\$19.95	\$17.95	\$15.95
	18650 2600mAh 3.7V Solder	SB-2313	\$21.95	\$19.75	\$17.75
	26650 3400mAh 3.7V Nipple	SB-2315	\$24.95	\$22.50	\$19.70
	26650 3400mAh 3.7V Solder	SB-2319	\$25.95	\$23.35	\$20.70

LIFEPO4 RECHARGEABLE BATTERIES

LiFePO4 Rechargeable Batteries

Lithium iron phosphate (LiFePO4) is a more chemically stable type of lithium rechargeable cell that is becoming increasingly popular, due to the increased safety and longer cycle life over traditional Li-ion cells. They have a slightly lower capacity and nominal voltage than equivalent Li-ion cells, but can be charged/discharged around 2000 times (versus 500-1000 for Li-ion), and can deliver higher peak currents. We now offer a couple of common sizes:

14500 3.2V 600MAH LIFEPO4

- Capacity: 600mAh
- Dimensions: 14(diam) x 50(L)mm

SB-2305

18650 3.2V 1600MAH LIFEPO4

- Capacity: 1600mAh
- Dimensions: 18(diam) x 69(L)mm

SB-2307

26650 3.2V 3400MAH LIFEPO4

- Capacity: 3400mAh
- Dimensions: 68(L) x 21(Dia.)mm

↑	Type	Cat.	Qty 1+	Qty 8+	Qty 15+
	14500 600mAh	SB-2305	\$9.95	\$8.95	\$7.95
	18650 1600mAh	SB-2307	\$17.95	\$15.95	\$14.35
	26650 3000mAh	SB-2317	\$24.95	\$22.50	\$19.70



Workbench sent to us by: Felix Jaycar Store: East Kew

Who said clean desk, clear mind. I believe a messy area empowers creativity.

For more details, visit:
www.jaycar.com.au/workbench

BATTERY CHARGER COMPARISON GUIDE

Use our selection guide to help choose...

	MB-3514	MB-3549	MB-3563	MB-3561	MB-3551	MB-3632	MB-3638	MB-3639	MB-3637
12VDC	-	✓	-	✓	✓	✓	-	✓	✓
240VAC	✓	✓	✓	✓	✓	✓	✓	✓	✓
Charges Ni-MH	✓	✓	✓	✓	✓	✓	✓	✓	✓
Charges Ni-Cd	✓	✓	✓	✓	✓	✓	✓	✓	✓
Charges Li-ion	-	-	-	-	-	✓	✓	✓	✓
Charges Li-Po	-	-	-	-	-	✓	✓	-	✓
Charges AAA	✓	✓	✓	✓	✓	-	-	✓	✓
Charges AA	✓	✓	✓	✓	✓	-	-	✓	✓
Charges C	✓	-	-	-	-	-	-	-	-
Charges D	✓	-	-	-	-	-	-	-	-
Charges 9V	✓	-	-	-	✓	-	-	✓	✓
USB Outlets	-	-	-	-	-	-	✓	✓	-
Fast Charge	-	-	-	✓	-	-	-	-	-
Discharges	-	-	-	-	✓	-	-	-	-
Page Number	285	285	285	285	285	286	286	286	286

AAA & AA CHARGERS

Universal Ni-Cd/Ni-MH Battery Charger With Cut-Off

An affordable universal battery charger that will re-charge Ni-MH/Ni-Cd batteries in AA, AAA, C, D as well as 9V. It will also ensure long battery life by cutting-off the voltage when they are fully charged. The unit can charge in various configurations, for example 2 x 9V and 4 x AA batteries simultaneously.



- Recharges: AAA, AA, C, D and 9V batteries
- Cut-off function
- Accepts various combinations of batteries
- Dimensions: 199(L) x 100(W) x 46(H)mm

Note: Batteries not included

Batteries must be charged in pairs excluding 9V.



	Cat.	Qty 1+	Qty 2+	Qty 4+
MB-3514		\$24.95	\$22.35	\$19.70

TECH TALK!

Learn more about using and charging Ni-Cd and Ni-MH batteries. Read our primers at www.jaycar.com.au/primers

2 Hour Fast Charger For AA/AAA Ni-MH Batteries

Recharge up to four AA or AAA Ni-MH batteries. This handy charger, which utilises Delta V voltage detection, charges batteries to their optimal level to ensure long life. Charge state can be monitored on the integrated electric blue LCD. Charge on the go with the car cigarette lighter cord included as well as the mains plugpack.

- Easy to read and backlit LCD
- Includes bad cell detection
- Charge at the home, office or on the road
- Delta V detection and cut-off
- 1150mA charging current for AA batteries
- 600mA charging current for AAA batteries
- Supplied with mains plugpack and car charging cable
- Dimensions: 105(L) x 68(W) x 30(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
MB-3549		\$29.95	\$26.95	\$23.95

Panasonic Ni-MH Battery Charger with 4 Eneloop Batteries

Charges both AA and AAA batteries and includes 4 x AA pre-charged Eneloop batteries. Eneloop batteries are ready for action straight from the shelf as they discharge at an extremely low rate. They can be recharged approximately 1,800 times (compared to approx 500 times for a regular rechargeable).



Batteries included



- Plug-in style wall charger (240V)
- Approx. 10 hour charge time
- Includes 4 x AA Eneloop 2,000mAh batteries
- Dimensions: 75(W) x 118(H) x 40(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
MB-3563		\$44.95	\$40.45	\$35.95

60 Minute Fast Charger with USB Port

Recharge up to 4 x AA or AAA Ni-MH batteries fast with this handy charger. Using Delta -V voltage detection, 4 individual channels and an auto cut-off safety timer. Also features LED indicators that show the charging status for each channel. Loaded with a USB port capable of 2.1A, great for charging digital cameras, GPS, Smartphones, iPhones® or iPads® and tablets. 240VAC adaptor and a 12VDC adaptor.



Batteries not included

- Suitable for 1-4 AA or AAA batteries
- Charge current 2000mA for AA, 850mA for AAA
- Dimensions: 114(L) x 75(W) x 30(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
MB-3561		\$49.95	\$44.90	\$39.90

12VDC & 240VAC Smart Battery Charger Ni-Cd & Ni-MH

Accepts a combination up to 10 x AA or AAA cells and 2 x 9 volt batteries. The integrated discharger can fully flatten the battery before charging to help minimise memory effects. Uses Delta V sensing to achieve the maximum charge. Charging timer protects against overcharging & individual LEDs show battery status.



- Charges up to 10 AA or AAA batteries
- Mains power adaptor supplied
- Dimensions: 220(W) x 40(H) x 115(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
MB-3551		\$59.95	\$53.95	\$47.90

POWER & SMART ENERGY SMALL BATTERY CHARGERS

AAA, AA, C, D, 9V CHARGERS (CONTINUED)

Universal Programmable Balanced Battery Charger

Particularly suited to radio control hobbies, it charges, discharges and balances Li-Ion, Li-Po, Ni-Cd, Ni-MH and lead-acid batteries. Li-Po batteries are balance-charged so there's no risk of damage or explosion from incorrect charging. The charging cycle is programmable and the whole process, or the charging of each individual cell can be monitored on the LCD screen. It can be powered with a mains plugpack or directly from a 12V battery or any other DC source from 10 - 18 volts. You'll need a fairly beefy mains supply capable of supplying about 5 amps. A variety of adaptors are included - glow plug, alligator clip, 2 and 3 pin battery packs and it also features balance charge connectors on the main housing.

Charging capacity:

- Up to 15 Ni-Cd or Ni-MH cells
- 2, 3, 4, 5 or 6 cell Li-Po packs
- 2 - 20V lead-acid
- Charge current: 0.1-5.0A
- Discharge current: 0.1-1.0A
- Current drain for balancing Li-Po: 300mAh/cell
- Microprocessor controlled
- Delta V charging detection
- 2, 3, 4, 5 and 6 cell balanced charging outputs
- Recommended mains power supply Cat. MP-3243
- Dimensions: 132(L) x 82(W) x 28(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3632	\$89.95	\$80.95	\$71.95

Universal Li-ion Cylinder Battery Charger with USB

Can accommodate 1 or 2 AA Ni-Cd/Ni-MH batteries or a variety of cylinder shaped Li-ion/Li-Po batteries. It achieves this with an adjustable battery contact. There is also a handy USB port that outputs 2.1A so you can charge your iPad® and Smartphones with ease. Compact size for easy transportation. Includes 5V 2.1A mains adaptor.

Specifications	MB-3638
Ni-Cd/Ni-MH charging	1.4V 1000mA
Li-Polymer/Li-ion charging	3.7V 1000mA
Suitable for	18650, 14500, 18500, 17670, 17500, 16650, 22650
Dimensions	110(L) x 48(W) x 27(D)mm



Note: Batteries not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3638	\$29.95	\$26.90	\$23.70

Universal Lithium Cylinder Battery Charger

A universal smart charger with dual independent charging slots for charging Li-ion, Li-Po and LiFePO4 cylinder cells. The adjustable battery contacts means this charger is suitable for the plethora of available lithium cell sizes such as 14500, CR123A and 18650 to name a few. It can also charge Ni-Cd and Ni-MH in AA and AAA sizes as well as 9V. It features an LCD to show the status of capacity, voltage, time and battery condition (poor/fail). It can be powered using the supplied mains power adaptor, 12V cigarette lighter lead, or via USB inputs.

- Suitable Lithium sizes: CR123A, 14500, 16650, 17670, 17500, 18500, 18650, 22650, 26650
- Suitable for AA and AAA Ni-Cd and Ni-MH
- Dimensions: 135(L) x 70(W) x 35(D)mm



Batteries NOT included



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3637	\$59.95	\$53.95	\$47.95

RECHARGABLE Li-ION BATTERIES & CHARGERS

Universal Li-ion/Ni-Cd/Ni-MH Battery Charger

This cleverly designed charger to charge various Li-ion battery packs, as well as AA, AAA or 9V Ni-MH and Ni-Cd rechargeable batteries. Housed with a spring loaded cover for clamping down batteries, two Delta-V controlled single cell channel and two adjustable contact pins which are polarity sensing for that added convenience. A USB port on the side accommodates the charging needs for your iPhone®, Smart phone or any USB power device. Topped off with an LCD for displaying the battery type, voltage and charge status. Perfect for digital camera, cordless phone and MP3 player batteries. The charger is supplied with both mains and car adaptors.

- Suitable for: 1 x 3.6V or 7.2V Li-ion battery packs
- 1-2 x AA/AAA Ni-MH or Ni-Cd batteries
- 1 x 9V Ni-MH
- USB output: 5VDC, 500mA
- Dimensions: 120(L) x 62(W) x 35(H)mm



Note: iPhone®, charging cable and batteries not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3639	\$44.95	\$40.45	\$35.95

Li-ion CR123A Battery Charger

CR123A batteries are commonly used in some LED torches and many cameras but the replacements are expensive. Now there's a rechargeable option with this lithium-ion CR123A battery & matching charger. Normally, Li-ION batteries have a nominal voltage of 3.7V, which being higher than a normal CR123 battery can damage the sensitive circuitry of LED torches and cameras - but this battery is different! The battery features smart circuitry inside that drops the voltage to 3.0V under load, making it perfectly safe to use with sensitive electronics that normally use a 3.0V CR123 battery. The intelligent design will fully recharge the included battery in about 3 hours and shows an LED charge status indicator.

- Automatic charge control
- Short circuit & over voltage protection
- Supplied with mains plugpack and car charging cable
- Smart battery technology keeps nominal voltage to 3.0V

Replacement CR123A 650mAh battery Cat. SB-2411 sold separately



SB-2411



MB-3581

NOTE: BATTERY INCLUDED

Specifications	MB-3581
Battery voltage	3VDC
Charge time	3 hours
Charger input	12VDC
Dimensions	90(L) x 40(W) x 25(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
CR123A Charger with Battery	MB-3581	\$39.95	\$35.95	\$31.95
	Cat.	Qty 1+	Qty 10+	Qty 20+
CR123A Battery	SB-2411	\$14.95	\$13.45	\$11.95

BATTERY TESTERS

Battery / Bulb / Fuse Tester

Battery tester with fuse and bulb checker. Tests AAA, AA, C, D (1.5V) & 9V batteries on the easy-to-read, colour-coded analogue display. It checks bulbs and fuses, giving a 'good' or 'replace' indication, and will also test larger 1.5V button batteries like the LR44. There is also a handy compartment to store spare fuses, bulbs and button cells.

- Very accurate
- Measures: 150mm long
- Uses 9V Battery (included)

If you are a serious battery user you would be crazy not to own one of these. Kids are notorious for throwing good batteries in the bin!



	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2252	\$13.95	\$12.35	\$10.95

All in One Battery Tester

Here's a modern day battery tester to suit all your needs. This handy unit will test all types of batteries currently out there on the market including standard AA/AAA/C/D/9V batteries, button cells and lithium batteries such as those used in digital cameras. The LCD indicates the level of capacity so you'll never get caught out on a day trip with 1/2 flat batteries in your digital camera.

- One product to test all those batteries in your kitchen drawer before use!!

Note: Batteries not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2253	\$23.95	\$21.35	\$18.95

Battery Organiser with Tester

Batteries are too expensive to waste and this well-designed organiser is an easy way to make the most of them. Hanging on a wall or flat in a drawer it holds 8 x D, 10 x C, 25 x AA, 10 x AAA and 8 x 9V batteries and you can store button batteries in the little drawer. There's even a removable tester so you can be sure each one is ready to use.

- 290(L) x 150(W) x 35(D)mm

Note: Batteries not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2312	\$16.95	\$15.25	\$13.55

BATTERY CONTAINERS & HOLDERS

4 x AA Battery Container

PACK OF 2

Handy battery containers to store your AA batteries. Perfect for every digital camera owner who should have a spare set of batteries, charged and ready to go. Each container holds up to 4 x AA batteries and measure only 65mm wide, easily fitting in the pocket, purse or camera bag.

- One red and one blue supplied.



Batteries not included

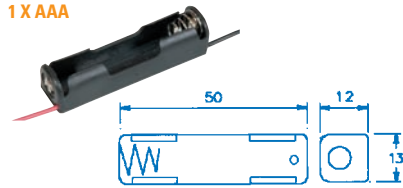
Cat.	Qty 1+	Qty 4+	Qty 10+
HB-6359	\$4.45	\$3.95	\$3.45

AAA Size

The holders are moulded in Delrin with corrosive resistant nickel plated springs and studs.

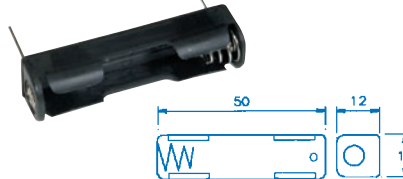
- All have connection wires 150mm long, unless marked
- We can supply OEM quantities of holders with special configurations

1 X AAA



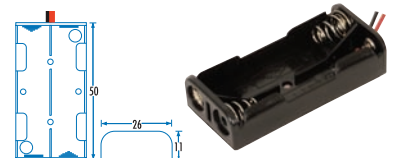
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9260	\$0.80	\$0.70	\$0.62

1 X AAA PCB MOUNT



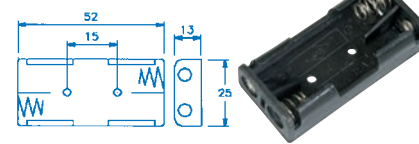
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9261	\$0.80	\$0.70	\$0.62

2 X AAA CELL



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9226	\$1.45	\$1.30	\$1.15

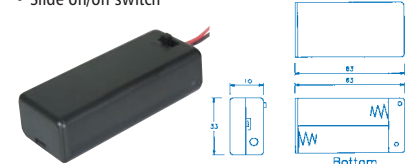
2 X AAA PCB MOUNT



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9264	\$1.00	\$0.90	\$0.80

2 X AAA SWITCHED BATTERY ENCLOSURE

- Size 63(L) x 26(W) x 16(H)mm
- 150mm long tinned leads
- Slide on/off switch



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9288	\$2.45	\$2.15	\$1.95

3 X AAA BATTERY HOLDER FOR LED LIGHTS

Round battery holder that holds 3 x AAA batteries. Suits LED torches and bike lights, including ST-3465, ST-3456 and ST-3475. Have a few handy, loaded with batteries (available separately), if you're going long distance.

- Dimensions: 53.5(L) x 22.3(Dia)mm (without batteries)

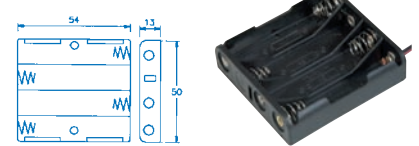
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9221	\$0.95	\$0.85	\$0.75

4 X AAA SWITCHED BATTERY ENCLOSURE

- High quality ABS holder with on/off switch and sliding cover
- Includes 150mm long tinned leads
- Dimensions: 63(L) x 48(W) x 15(H)mm

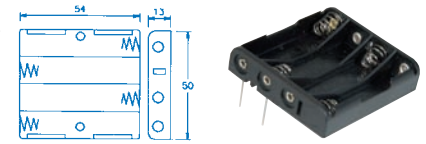
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9285	\$2.95	\$2.60	\$2.30

4 X AAA SIDE BY SIDE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9268	\$2.45	\$2.15	\$1.95

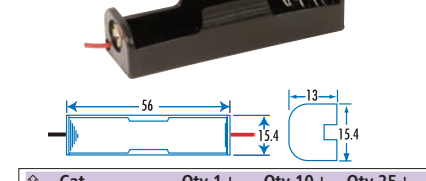
4 X AAA PCB MOUNT



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9270	\$2.45	\$2.15	\$1.95

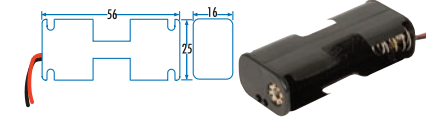
AA Size

1 X AA



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9203	\$0.95	\$0.85	\$0.75

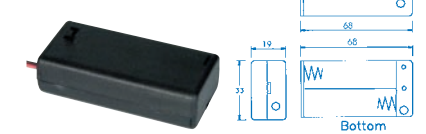
2 X AA SIDE BY SIDE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9202	\$0.95	\$0.85	\$0.75

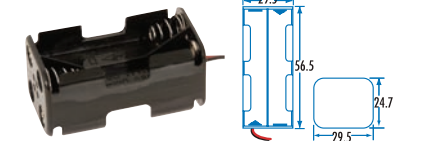
2 X AA SWITCHED BATTERY ENCLOSURE

- Size 68(L) x 33(W) x 19(H)mm
- 150mm long tinned leads
- Slide on/off switch



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9280	\$2.45	\$2.15	\$1.95

4 X AA SQUARE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9200	\$1.65	\$1.45	\$1.30

See our range of Eclipse batteries on page 279.

RELATED PRODUCTS

FROM
\$4.95
WH-3025



HOOK-UP WIRE

P201

FROM
\$9.95
QM-1500



MULTIMETER

P13

FROM
\$6.95
SB-2902



BATTERIES

P279

FROM
\$33.95
SB-2936



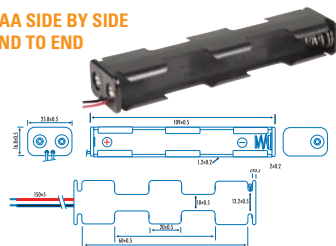
RECHARGEABLE BATTERIES

P283

BATTERY CONTAINERS & HOLDERS (CONTINUED)

AA Size (continued)

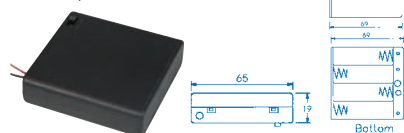
4 X AA SIDE BY SIDE & END TO END



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9204	\$1.65	\$1.45	\$1.30

4 X AA SWITCHED BATTERY ENCLOSURE

- Size 69(L) x 65(W) x 19(H)mm
- 150mm long tinned leads
- Slide on/off switch



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9282	\$2.95	\$2.60	\$2.30

4 X AA WATERPROOF BATTERY ENCLOSURE

Simply add your own AA batteries and you have a 6V power source to power your gadgets when mains power is not available. It is water and dustproof, so it can be used outdoors, which could include powering outdoor weather sensors, tank level meters, door entry buzzers, decorative LED lighting, etc.

- High impact resistant ABS plastic enclosure with a nylon cable gland
- Rated IP68 to provide protection against oil, dust and water
- Enclosure is secured by brass nuts moulded in the interior of the base with 4 x supplied self tapping screws
- Includes 150mm long tinned leads
- Dimensions: 79(L) x 67(W) x 23(H)mm



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9281	\$7.95	\$7.15	\$6.35

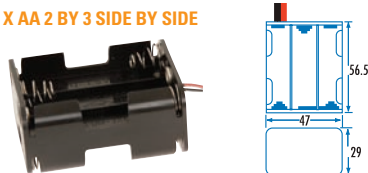
4 X AA SWITCHED BATTERY ENCLOSURE WITH 2.1MM DC PLUG

- High quality ABS holder with on/off switch and sliding cover
- Includes 150mm lead 2.1mm DC Plug (centre positive)
- Dimensions: 68(L) x 65(W) x 19(H)mm



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9283	\$5.95	\$5.50	\$4.75

6 X AA 2 BY 3 SIDE BY SIDE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9206	\$1.75	\$1.55	\$1.40

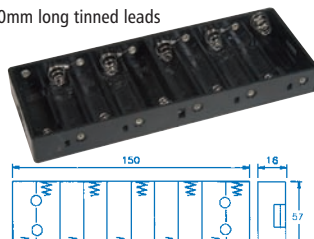
8 X AA 2 ROWS OF 4 SQUARE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9209	\$1.95	\$1.75	\$1.55

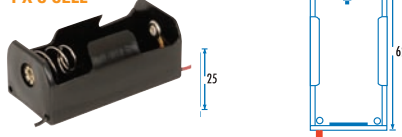
10 X AA SIDE BY SIDE

- 150mm long tinned leads



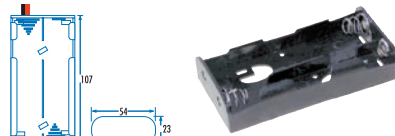
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9210	\$3.95	\$3.45	\$3.15

C Size 1 X C CELL



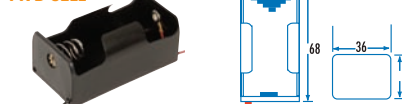
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9212	\$1.75	\$1.55	\$1.40

4 X C CELL 2 ROWS OF 2 END TO END



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9216	\$2.25	\$1.95	\$1.80

D Size 1 X D CELL



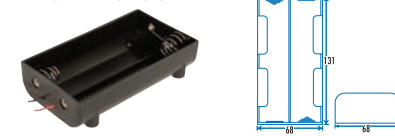
Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9218	\$1.75	\$1.55	\$1.40

2 X D CELL SIDE BY SIDE



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9220	\$2.45	\$2.15	\$1.95

4 X D CELL 2 ROWS OF 2

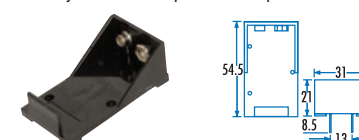


Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9222	\$2.95	\$2.60	\$2.30

9V Size

PCB MOUNT 9V

- Plastic holder for 9V batteries
- Battery connection 2 pins 13mm apart.



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9235	\$1.00	\$0.90	\$0.80

9V Size (continued)

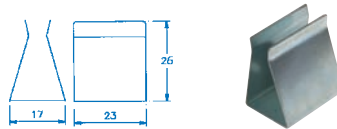
9V PCB X 2 MOUNT CLIPS

PCB mount pins to suit a 9V battery. Supplied as a pair.



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9239	\$1.95	\$1.75	\$1.55

9V HOLDER



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9237	\$0.70	\$0.62	\$0.55

STANDARD 9V SNAP-ON



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9230	\$0.40	\$0.35	\$0.30

QUALITY 9V BATTERY CLIP

If your project or product requires a better than average quality 9V battery clip, look no further, we have them.



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9232	\$0.70	\$0.62	\$0.55

BEST QUALITY "SAFETY" 9V BATTERY CLIP

We call these safety clips because the side of the clip totally covers the battery terminals and sits flush on the top of the battery. Supplied with high quality AWG24 connection cable.



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9233	\$0.90	\$0.80	\$0.70

BEST QUALITY "T" SAFETY 9V BATTERY CLIP

Same as the PH9233 but the wire exits the clip at the side, hence the "T" type.



Cat.	Qty 1+	Qty 10+	Qty 25+
PH-9234	\$0.90	\$0.80	\$0.70

Battery Bank 4 x AA with USB Socket & Switch

Provides 5VDC power through the USB socket by using 4 x AA batteries. The unit makes a superb back-up charger for any USB powered device such as an MP3 player or PDA and also features a slide on/off switch.

- Size: 15(H) x 63(W) x 80(D)mm

Batteries not included



Note: Output is not regulated

Cat.	Qty 1+	Qty 10+	Qty 25+
MP-3083	\$6.95	\$6.25	\$5.50

SOLID LED STRIP LIGHTING

Solid LED Strip Lights - 12VDC

An efficient, bright and affordable LED lighting solution, which is safe and easy to install. Each strip features wide angle, high brightness SMD LEDs which are powered by 12VDC. They are fixed easily using the strong 3M brand self adhesive backing tape or mounted into a range of aluminium and plastic extrusions and diffusers available separately. Each 500mm length can be snapped into individual segments and are powered by either 12VDC or 24VDC. Applications include under cabinet kitchen bench lighting, hallway or mood lighting, marine/caravan/motorhome lighting, commercial strip lighting, retail shop fit outs, and many many more.



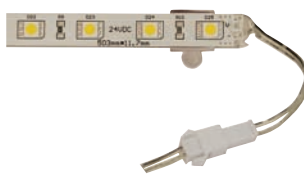
- Available in 8mm and 11mm widths, 12VDC

Features:

- 8mm strips fitted with 3528 single chip SMD LEDs
- 11mm strips fitted with 5050 tri-chip SMD LEDs
- Strips can be snapped into individual segments and powered individually
- Strips can be integrated with our aluminium and plastic extrusions and diffusers



Specifications	ZD-0461	ZD-0552
Voltage	12VDC	12VDC
Colour	White	White
Current	200mA	500mA
Lumen output	150	390
LED quantity	30 x 3528	30 x 5050
No. of segments	10	10
Light angle	120°	120°
Dimensions	500 x 8mm	500 x 11mm



Size	Colour	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
8mm	Cool White	12V	ZD-0461	\$14.95	\$13.35	\$10.35
11mm	Cool White	12V	ZD-0552	\$24.95	\$22.45	\$17.45

IP65 LED Lighting Module Strings - 12VDC

A very flexible and weatherproof (IP65) solution for low power lighting; use for backlighting of signs, illuminating stairwells, marine lighting, caravan lighting, etc. Each string is supplied as a 1m length of wire, with ten "modules" containing three high brightness SMD LEDs along the length of the string. You can cut the string to supply power to each module separately if you wish, allowing for a whole host of different applications. Simply provide 12VDC power and you are in business. Available in standard 3528-LED or ultra-bright 5050-LED versions, in cool white or blue colours depending on the model you choose.



Specifications	ZD-0590	ZD-0593	ZD-0594
Voltage	12VDC	12VDC	12VDC
Colour	Cool White	Blue	Cool White
Current	300mA Total	200mA Total	600mA Total
Lumen output	13.5/135 total	5.1/51 total	50/500 total
LEDs	10x (3x3528)	10x (3x3528)	10x (3x5050)
Light angle	120°	120°	120°
Dimensions	71x15x5.5mm	71x15x5.5mm	83x17x6mm

LEDs	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3x3528	Cool White	ZD-0590	\$16.95	\$15.25	\$11.85
3x3528	Blue	ZD-0593	\$16.95	\$15.25	\$11.85
3x5050	Cool White	ZD-0594	\$29.95	\$26.90	\$20.70

Accessories to suit Superceded Extruded Aluminium Channel



HH-8540



NEW LOW PRICE

HH-8536



	Cat.	Qty 1+
Diffuser Insert Strip Flanged Clear	HH-8540	\$9.95
Channel Endcap (pack of 2)	HH-8536	\$1.95

LED Light Strips with Switch - 12VDC

A quick and easy LED strip light solution. The LED strip is pre-assembled in the channel diffuser with an integrated switch encased in attractive anodised aluminium alloy. They feature a generous beam angle with evenly distributed light thanks to the frosted white diffuser. Great for use on window displays, restaurant foyers, showrooms, hotels, and caravan or RV applications. Four mounting screws are included for fast and easy installation. Available in 48 and 84 LED strips.

Features for both

- Input: 3.5 x 1.35mm DC socket centre positive
- LEDs: 3528 SMD
- 4 x mounting screws included

Two models available:

48 LED LIGHT STRIP
ST-3930



84 LED LIGHT STRIP
ST-3932



ST-3932

Specifications	ST-3930	ST-3932
Power rating	12VDC 5W	12VDC 9W
Colour temperature	6000-6500K, Cool white	6000-6500K, Cool white
Lumens	280	520
Dimensions	313(L) x 30(W) x 12(H)mm	513(L) x 30(W) x 12(H)mm



Suitable accessories:

IN-LINE DIMMER:

ST-3938 - 12VDC/24VDC LED Dimmer Switch

LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	313mm	ST-3930	\$24.95	\$22.45	\$19.95
84	513mm	ST-3932	\$34.95	\$31.45	\$27.90



Workbench sent to us by: Robert

Jaycar Stockist: Batteryland Bairnsdale - Bairnsdale

This is part of my workshop. I am 74 years of age & retired I am very involved in the Nicholson Model sailing Club and building and racing model yachts, metal casting, jewellery making, model steam engines & boats, RC equipment and glass fusing & slumping etc

I spend at least 8 hours a day on hobbies and could really do with a 36 hour day

For more details, visit:

www.jaycar.com.au/workbench

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



POWER & SMART ENERGY LED STRIP LIGHTING

SOLID LED STRIP LIGHTING (CONTINUED)

Linkable Aluminium LED Strip Lights - 12VDC

A stylish aluminium LED strip light kit. Suitable for caravan, marine, 4WD, auto and domestic applications. Connect multiple lights together with the included connectors to match your desired length and application. Supplied with a 100mm DC plug with lead for hardwiring, connecting adaptor and cable as well as a right angle adaptor. Screw mounting holes provided on the ends for easy installation in three different ways - 180°, 360° and 90°.



- Available in 48 and 84 LED linkable strips
- Suitable in-line Dimmer use ST-3938
- Colour: Cool white
- Voltage input: 12VDC
- Input: 3.5 x 1.35mm DC socket centre positive
- LEDs: 3528 SMD

Specifications	ST-3934	ST-3936
Power rating	12VDC 5W	12VDC 9W
Colour temperature	6000-6500K	6000-6500K
Lumens	280	520
Dimensions	324(L) x 30(W) x 12(H)mm	524(L) x 30(W) x 12(H)mm



LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	324mm	ST-3934	\$24.95	\$22.50	\$19.95
84	524mm	ST-3936	\$39.95	\$35.90	\$31.90

LED Dimmer Switch - 12VDC

Compact in-line dimmer suitable for dimmable LED lights. Rotate ON/OFF and to adjust light level. Supplied with DC jacks for easy connection between LED lights and your power supply unit

- Suitable for use with our LED strip lights ST-3930, ST-3932, ST-3934 and ST-3936

Specifications	ST-3938
Operating voltage	12VDC
Output current (max)	2A
Output power (max)	24W/48W
Dimming	0 to 100%
Colour	White
Dimensions	68(L) x 34(W) x 33(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
In-Line Dimmer	ST-3938	\$14.95	\$13.45	\$11.95

LED Aluminium Light Strip with Switch - 240VAC

A range of LED aluminium light in elegant aluminium strips. A simple and straight forward solution; each strip is terminated with a 240V plug and lead. No time consuming wiring and costly electricians are required. Simply plug in to the mains outlet and you have instant lighting solution. It has a built-in switch and is IP44 rated making it ideal for kitchen, under cabinets, book cases, bathroom lighting applications. Power consumption is significantly lower than fluorescent alternatives.



- LED Light strips meet SAA Safety approvals.

Specifications	All
Voltage input	240VAC
IP Rating	IP44
Colour Temperature	Cool White

24 LED ALUMINIUM LIGHT STRIP

- 350 lumens
- 450mm long
- ST-3944

78 LED ALUMINIUM LIGHT STRIP

- 950 lumens
- 1200mm long
- ST-3948



48 LED ALUMINIUM LIGHT STRIP

- 650 lumens
- 850mm long
- ST-3946

LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
24	450mm	ST-3944	\$34.95	\$31.45	\$27.90
48	850mm	ST-3946	\$54.95	\$49.45	\$43.95
78	1200mm	ST-3948	\$64.95	\$58.45	\$51.95

TECH TALK!

STRIP LIGHTING

Our range of LED strip lights are made using some of the most common type of SMD LEDs used in LED lighting products; the 3528 type, and the 5050/5060 type.

Their model designations actually come from their footprint dimensions:

3528 = 3.5x2.8mm, 5050 = 5.0x5.0mm, and 5060 = 5.0x6.0mm.

FLEXIBLE LED STRIP LIGHTING

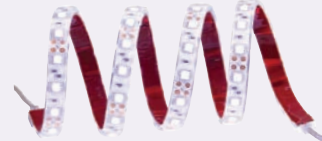
Ultra Bright IP67 Waterproof LED Flexible Strip Light



A 1 metre long fully waterproof, flexible LED strip light that is perfect for any outdoor application needing some bright, reliable lighting. This flexible strip light uses 60 of the highest brightness 5050-SMD type LEDs that are fully sheathed in a protective plastic casing to protect from water, dust and damage. Features waterproof male/female connections at each end to ensure that your power connection is also protected from the elements, and at the same time allows multiple strips to be daisy-chained together to create a longer length (up to 5m max).



Specifications	ZD-0579
Voltage	12VDC
Colour	Cool white
Current	1000mA
Lumens	850
LEDs	60x 5050
Dimensions	1000(L) x 10(W)mm



	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	1m	ZD-0579	\$49.95	\$44.90	\$39.90

Cigarette Power Lead to Suit ZD-0579

Cigarette lighter power lead with IP67 2.1mm DC plug.

- Suits ZD-0579 LED flexible strip light
- 3m long



	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-1981	\$19.95	\$17.95	\$15.95

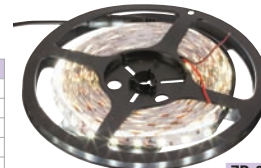
Low Cost 5m Flexible Adhesive LED Strip Lights



When the absolute brightest light possible isn't what you are looking for, then these competitively priced flexible LED strips are what you are looking for. These strips still use the same super efficient 5050 SMD LED package as our ultra bright LED strips, but each LED has around 20-40% less light output than our ultra bright versions. Everything else is the same; there are 60 LEDs per metre, the flexible strip can be cut into sections every third LED to create separate strips to your desired length, the strip is backed with 3M brand adhesive tape, and each section had solder pads to enable you to wire up to your desired configuration. Sold as a full 5 metre reel in cool white and warm white colours, they are an excellent solution to thousands of lighting applications such as display cabinets, under bench lighting, accent lighting, caravan/camping, 4WD, mood lighting, etc.

Two versions available.

Specifications	ZD-0575	ZD-0577
Voltage	12VDC	12VDC
Colour	Cool white	Warm white
Current per section	55mA	55mA
Current per metre	1100mA	1100mA
Lumens per metre	970lm	950lm



ZD-0575

	Price per	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	5m Roll	ZD-0575	\$69.95	\$62.95	\$55.95
Warm White	5m Roll	ZD-0577	\$69.95	\$62.95	\$55.95

Workbench sent to us by: Steve Jaycar Store: Gepps Cross

This is the spill over from my 2 x 3 metre garden 'shed', where I finish off making my radio controlled yachts.



For more details, visit:
www.jaycar.com.au/workbench

FLEXIBLE LED STRIP LIGHTING (CONTINUED)

Ultra Bright Flexible Adhesive LED Strip Lights



These flexible adhesive LED strips are made using the highest brightness 5060-SMD type LEDs, and feature 60 of these LEDs per metre of stripping. Each strip comes as a 5m length, which can be broken down into individual 5cm sections with 3x LEDs that can be individually soldered to apply power. We understand that not all applications require a full 5m length, so we cut them to length and sell by the 5cm section, so that you can get the exact length you require. The strip itself is a flexible circuit board, backed with quality 3M brand adhesive tape to ensure a long term adhesion to your mounting surface. Powered by 12VDC. Two types available:

Note: Compatible with our Aluminium Channel
System HH-8547, HH-8548 & HH-8549



ZD-0570

Specifications	ZD-0570	ZD-0572
Voltage	12VDC	12VDC
Colour	Cool white	Warm White
Current per section	50mA	50mA
Current per metre	1000mA	1000mA
Lumens per metre	1200	1200
LEDs per section	3 x 5060	3 x 5060
Sections per metre	20	20
Dimension per section	50x10mm	50x10mm

	Price per	Cat.	Qty 1 +	1 Metre	5 Metres
Cool White	50mm segment	ZD-0570	\$2.95	\$43.00	\$145.00
Warm White	50mm segment	ZD-0572	\$2.95	\$43.00	\$145.00

RGB LED Flexible Strip Lighting Kit with Effects

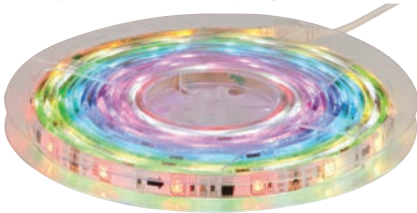


An easy to setup RGB LED strip that can produce an array of dazzling effects. The device controls each bank of 3 x LED's individually to create effects that emulate flowing water, a shooting star, curtains opening, a colour gradient and more. Using the remote control you can switch all LEDs to white, red, green, blue, yellow, purple etc, adjust the brightness or set it up to cycle through all the different effects. Lighting applications include cinema foyers, nightclubs, casinos etc.

The kit includes a 5m reel of high brightness RGB LEDs with 3M adhesive backing, a power supply remote control, and a joiner to connect LED strips together.

Kit contains:

- 5m RGB LED lighting strip
- Infrared remote control
- Power supply
- LED strip joiner



Specifications	SL-3954
Input voltage	12VDC
5m reel contains	150 X RGB LEDs
Controller dimensions	94(L) x 58(W) x 25(H)mm



	Roll Length	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
RGB	5 metres	SL-3954	\$139.00	\$124.95	\$110.95

Flexible LED Strip Light with Hook & Loop Backing



A simple solution for campsite lighting. Just plug it into a 12V cigarette lighter socket, flick the switch and you have over 1,000 lumens of brilliant white light to light up under your awning, inside a tent, or anywhere else around the campsite. The 1.2m long LED strip is fitted inside a fabric strip with hook and loop backing allowing you to easily attach it to tent poles or awning frames. Metal hooks are also fitted for alternative mounting options.

- The supply cord is 5m long with a waterproof in-line switch
- LED strip is IP67 waterproof
- Includes carry bag



Supplied with carry bag

Specifications	ST-3950
Rating	IP67 Waterproof
Input	12VDC
Input current	1.0A
Colour	Cool white, 5500K
Lumens	1200
LEDs	72 x 5050SMD
Switch	Waterproof in-line switch
Cord length	5m
Dimensions	1350(L) x 50(W) x 7(H)mm

	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
Cool White	ST-3950	\$99.95	\$89.95	\$79.95



Workbench sent to us by: David Jaycar Store: Modbury

Laser testing colloidal silver samples from my custom designed CS generator built from many Jaycar components.

There are plenty of Jaycar products on my workbench from tools, test gear, soldering iron, hot glue gun to component drawers, magnifying lamp and wire and cable.

The lasers are 2 x HeNe 633nm industrial gas tubes and 1 x 532nm green laser diode.

For more details, visit:
www.jaycar.com.au/workbench

RELATED PRODUCTS

FROM
\$29.95
MP-3490



12V PSU

P265

FROM
\$1.95
PP-0509



DC PLUG

P225

FROM
\$34.95
SB-2486



12V BATTERY

P243

FROM
\$1.85
HP-1200



CABLE TIES

P208

POWER & SMART ENERGY LED DOWNLIGHT KITS

LED DOWNLIGHT KITS - 240VAC

LED downlights have a lot of benefits over their traditional halogen counterparts, the biggest of which are their significantly lower power consumption (around 70 - 90% less), longer life expectancy (50,000 vs 2,000 hours) and significantly lower heat generation.

Installation is generally easy for both new applications and retrofitting of globes.

See our website for full details and specifications.

13W LED Downlight with Remote Controlled Colour Temp & Brightness Kit - 240VAC

These high lumen output, energy efficient LED Downlights are economical, environmentally friendly, and most importantly, user friendly. Each LED Downlight is rated to a low 13W but can produce an impressive output of up to 850 lumens. Each is supplied with a driver and a mains lead all already pre-terminated to each component when supplied. They are also controlled by remote, which allows you to control; The colour temperature from Warm White to Cool White to Daylight White, the brightness output from 100% down to 20% and to switch the power on or off. The remote control has four channels that allows you to pair off groups, each channel can pair up to 10 downlights, allowing a maximum system of 40 downlights paired on to 1 remote. Each system can be controlled by up to 6 remotes as well.

You can also add some Wi-Fi connectivity to this Remote Controlled Downlight System with the Wi-Fi Control Box (SL-2338). When paired to the Wi-Fi Control Box, you can download a free app on your iOS® or Android® Smartphone or Tablet, and have a virtual remote control on your hand held device. These 13W LED Downlights is available in three designs, a Gymbal mount with a flushed surface, a Recessed surface and a Flush surface. All models made in die-cast aluminium for added durability. Ideal for both domestic and workplace applications.

GYMBAL MOUNTED DOWNLIGHT WITH REMOTE CONTROL KIT - SL-2330

Included: Downlight, Driver, Mains lead, RF Remote Control

GYMBAL MOUNT - SL-2332

Includes: Downlight, Driver, Mains lead

RECESSED SURFACE - SL-2334

Includes: Downlight, Driver, Mains lead

FLUSH MOUNT - SL-2336

Includes: Downlight, Driver, Mains lead

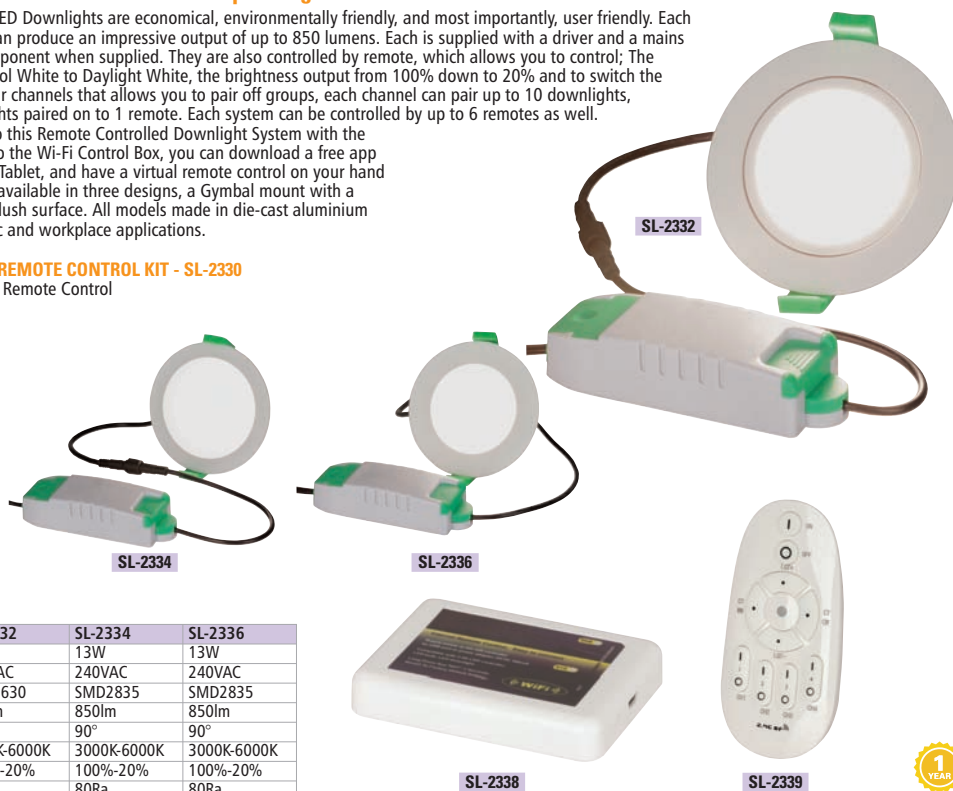
WI-FI CONTROL BOX - SL-2338

- Power: USB, 5V
- iOS® and Android® Free App available

RF REMOTE CONTROL - SL-2339

- Power: 2 x AAA batteries included
- Signal: 2.4GHz
- Control Distance: 30m

Specifications	SL-2330	SL-2332	SL-2334	SL-2336
Power	13W	13W	13W	13W
Input voltage	240VAC	240VAC	240VAC	240VAC
LED type	SMD5630	SMD5630	SMD2835	SMD2835
Output	850lm	850lm	850lm	850lm
Output Angle	90°	90°	90°	90°
Colour temperature	3000K-6000K	3000K-6000K	3000K-6000K	3000K-6000K
Dimmable	100%-20%	100%-20%	100%-20%	100%-20%
CRI	80Ra	80Ra	80Ra	80Ra
Cut-out	90mm	90mm	90mm	90mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
13W 850 Lumens - Gymbal Mounted Downlight with Remote Control Kit	SL-2330	\$69.95	\$62.95	\$55.95
13W 850 Lumens - Gymbal Mount Downlight	SL-2332	\$59.95	\$53.95	\$47.90
13W 850 Lumens - Recessed Surface Downlight	SL-2334	\$59.95	\$53.95	\$47.90
13W 850 Lumens - Flush Mount Downlight	SL-2336	\$59.95	\$53.95	\$47.90
Wi-Fi Control Box	SL-2338	\$74.95	\$67.45	\$59.95
RF Remote Control	SL-2339	\$19.95	\$17.95	\$15.70

8W Dimmable LED Downlight Kits - 240VAC

A true replacement for a 50W halogen downlight. Featuring the same remote phosphor technology used in all Viribright LED lighting products, they offer excellent light output, efficiency, a wide beam output and high colour rendering for true colour illumination. Fully dimmable with traditional electronic light dimmers or our LED dimmer PS-4084, suitable for a ceiling cut out of 75-92mm and supplied with a 2-pin mains lead. Fantastic for DIY replacement of existing halogen downlights, or a totally new installation. Powered directly by 240VAC so there is no need for external LED drivers. Fully approved for electrical safety and even approved for the NSW 'ESS' and Victoria 'VEET' commercial lighting energy saving schemes (electricians take note!).

Available in warm white or natural white.

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Specifications	SL-2300	SL-2302
Power	8W	8W
Input voltage	240VAC	240VAC
Lumens	550	700
Equivalent halogen	50W	50W
Colour	Warm white	Natural white
Colour temp.	2800K	4000K
Beam angle	80°	80°
CRI	>85	>85
Ceiling cutout	75-92mm	75-92mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
8W Warm white	SL-2300	\$29.95	\$22.50	\$17.50
8W Natural white	SL-2302	\$29.95	\$22.50	\$17.50

Ecolume Mains 15W Downlight Kit - 240VAC

A more energy efficient solution to halogen or CFL downlights, this 100mm LED downlight is powered by 6 x Osram® Osolon Square EC, featuring the latest in efficient LED technology from Osram. The result is a phenomenally bright light output; even higher than a 55W halogen, with over 800 lumens of light produced! Besides the significant power savings (over 75%) we should also highlight that being LED, the 15W Ecolume downlight operates at significantly lower temperatures with no ultraviolet and carbon emissions, and will provide 50,000 hours plus of service life.

Supplied with a dimmable LED driver (Clipsal® trailing edge recommended) and the adjustable gimbal housing finished in white colour.

Truly a high quality product with outstanding performance, we are giving this a 3 year replacement warranty.



Specifications	ZD-0373
Housing	Gimbal
Colour	Warm White
Colour Temp.	3000K
Beam Angle	40°
Lumen output	800
Equivalent halogen light	55W
Ceiling cutout	83-90mm
Length	120mm

ecolume



	Cat.	Qty 1+	Qty 3+	Qty 6+
15W Warm White	ZD-0373	\$24.95	\$20.00	\$15.00

LED DOWNLIGHT KITS - 240VAC (CONTINUED)

GU10 LED Mains Voltage Downlight Kits - 240VAC

Simply cut a hole and drop them in, or replace your existing halogen downlights. Mains powered, so no additional power supplies, transformers or ballasts required, just get an electrician to wire them straight in to 240VAC. Being LED rather than halogen, they use 1/10th the power, last over 50,000 hours, or over 20 years if run for 6 hours per day! The GU10 LED lamps supplied with each kit feature three Cree® XP-G LEDs, running at 2W each to produce a light output equivalent to a 30W halogen globe. Each assembly includes a junction box and spring clips to mount to any surface up to 25mm thick. White or warm white colour temperature, sold in a single kit or a pack of four.



- Cut-out: 90mm
- Length: 63mm
- Light output: White 450 lumens, warm white 350 lumens
- Dimmable (with regular trailing or leading edge dimmers)



	Cat.	Qty 1+	Qty 3+	Qty 6+
3 x 2W Warm White 1 Pack	ST-3897	\$9.95	\$7.50	\$6.25
3 x 2W Warm White 4 Pack	ST-3899	\$36.95	\$30.00	\$25.00

LIGHTING ACCESSORIES

Electronic Transformers for LED Lights

These electronic transformers are designed to be used with LED lighting products that take a 12V power source, for example our LED MR16 replacement globes, and provide the same kind of efficient power delivery and compact size as a normal electronic transformer. Electronic transformers that are intended for use with halogen downlights are not suitable for use with LED-replacement lighting products, since using them often causes flickering and dramatically reduces the life expectancy of the LED light. They deliver a constant 12VDC and feature short circuit, over temperature, over load and spike protection. Suitable for domestic and commercial applications, they are perfect for combining with our LED MR16 globes to replace those power-hungry halogen downlights.



	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Watt	MP-3360	\$24.95	\$22.45	\$19.95
20 Watt	MP-3362	\$29.95	\$26.95	\$23.95

MR16 REPLACEMENT LED LAMP - 12VAC/DC

MR16 6W COB LED Downlight - 12VAC/DC

High quality MR16 low-voltage LED downlight globes featuring a "chip-on-board" (COB) 6W COB LED module that produces over 500 lumens of brilliant light, making them a true halogen replacement, providing equivalent or better light output! Built in a cold forged aluminium housing, heat dissipation is far superior to most LED downlight globes; ensuring you get the full 30,000+ hour life expectancy. If saving power and lasting a lifetime weren't enough, they are also dimmable!

- To power use MP-3209 PWM 12VDC dimmer and a suitable 12VDC power supply

Specifications	ZD-0621
Power consumption	6W
LED(s)	COB
Power per LED	6W
Brightness	530 lumens
Colour	Warm white
Input voltage	12VAC/DC
Lens angle	60°
Fitting	MR16
Dimensions (dia x L)	50 x 45mm



	Lumens	Colour	Cat.	Qty 1+
530	Warm White	ZD-0621	\$24.95	

MR11 LED REPLACEMENT LAMPS - 12VAC/DC

MR11 LED Replacement Light 15x2835 LEDs 120° - 12VAC/DC

High brightness MR11 LED globes commonly used for lighting caravan and marine interiors, some desk lamps, and also used in retail shop display cabinets. High lumen level, available in cool and warm white.

Specifications	Both
Fitting	MR11
Input power	12VAC/DC, 2.2W
Brightness	230 lumens
Beam angle	120°
LED source	15x 2835 SMD LEDs
Dimensions	34(Dia.) x 29(D)mm



	Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
230	Cool white	ZD-0650	\$14.95	\$13.45	\$11.95	
230	Warm white	ZD-0652	\$14.95	\$13.45	\$11.95	

GU10 REPLACEMENT LED LAMPS 240VAC

GU10 6W COB LED Downlights - 240VAC

The latest in high performance and high efficiency LED light sources with "chip-on-board" (COB), where multiple LED emitters are built into the one module. These high quality MR16 low-voltage LED downlight globes feature a Shineon 6W COB LED module that produces over 500 lumens of brilliant light. With such a bright output, these globes are a TRUE halogen replacement, providing equivalent or better light output! Built in a cold forged aluminium housing, heat dissipation is far superior to most LED downlight globes; ensuring you get the full 30,000+ hour life expectancy.

If saving power and lasting a lifetime weren't enough, they are also dimmable!

- Use a standard triac dimmer (Clipsal® trailing edge recommended).

Two models available:

Specifications	ZD-0625	ZD-0626
Power consumption	6W	6W
Fitting	GU10	GU10
Colour	Cool white	Warm white
Colour temp	5500K	3000K
LED type	6W COB	6W COB
Brightness	550 lumens	530 lumens
Input voltage	240VAC	240VAC
Lens angle	60°	60°
Dimensions	50(D) x 57(H)mm	50(D) x 57(H)mm



	Lumens	Colour	Angle	Cat.	Qty 1+
550	Cool White	60°	ZD-0625	\$24.95	
530	Warm White	60°	ZD-0626	\$24.95	

G4 LED REPLACEMENT LAMPS - 12VAC/DC

G4 LED Replacement Light, 120° - 12VAC/DC

An easy replacement for a G4 2-pin type halogen globe that uses significantly less power, and lasts a much longer. Great for benchtop lighting, reading lamps, and a whole host of other applications.

Specifications	Both
Fitting	G4
Power	2.2W, 12VAC/DC
Light output	230 lumens
Lens angle	120°
LED source	15x 2835 SMD LEDs
Dimensions	27mm Dia.



	Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
230	Cool white	ZD-0655	\$13.95	\$12.35	\$10.95	
230	Warm white	ZD-0657	\$13.95	\$12.35	\$10.95	

G4 LED Waterproof Globes - 12VDC

Low wattage replacement G4 LED lamps suitable for use in recreational vehicles. Completely encapsulated in resin, making them waterproof.

Specifications	ZD-0564	ZD-0566
Colour	Warm white	Cool white
Power	1.5W	1.5W
Light output	100 lumens	110 lumens
Input voltage	12VAC/DC	12VAC/DC
Colour temperature	3000K	6500K
Dimensions	35(L) x 9.5mm	35(L) x 9.5mm



	Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
100	Warm White	ZD-0564	\$14.95	\$13.35	\$11.70	
110	Cool White	ZD-0566	\$14.95	\$13.35	\$11.70	

G4 LED Replacement Lights, 360° - 12VAC/DC

When a full 360 degree light output is required from your G4 type globe, such as a garden light or lamp, these are the LED solution to save you power.

Specifications	Both
Fitting	G4
Power	2W, 12VAC/DC
Light output	250 lumens
Lens angle	120°
LED source	18x 2835 SMD LEDs
Dimensions	27mm Dia.



	Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
250	Cool white	ZD-0654	\$14.95	\$13.45	\$11.95	
250	Warm white	ZD-0656	\$14.95	\$13.45	\$11.95	

POWER & SMART ENERGY LED REPLACEMENT GLOBES

MAINS LED GLOBES 240VAC

240V Mains LED Light Globes

A range of mains LED light globes that are a true replacement for traditional lighting, offering brilliant lumen performance with wide, evenly spread light. Unlike many other types on the market with only 180° light angle, these lights have a truly even light output across a 270° output angle, making them better than traditional light globes in many cases.

- Available in warm white, natural white and cool white colours
- Bayonet or screw cap
- 5W, 8W or 10W
- All models having a colour rendering index above 80
- All models are also dimmable with standard leading or trailing edge light dimmers, or you can use the Viribright dimmer switch, PS-4084.
- Typical payback period is just 9-12 months - see our online calculator to see how much you can save!



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Buy in bulk
and save \$\$



Power	Lumens	Colour	Base	Beam Spread	Colour Temp.	Equivalent Traditional Globe	Cat.	Qty 1+	Qty 2+	Qty 4+
5W	400	Warm white	Bayonet	270°	2800K	40W	SL-2210	\$8.95	\$7.50	\$5.00
5W	400	Warm white	Screw	270°	2800K	40W	SL-2211	\$8.95	\$7.50	\$5.00
5W	450	Natural white	Bayonet	270°	4000K	40W	SL-2212	\$8.95	\$7.50	\$5.00
5W	450	Cool white	Bayonet	270°	6000K	40W	SL-2208	\$8.95	\$7.50	\$5.00
5W	450	Cool white	Screw	270°	6000K	40W	SL-2209	\$8.95	\$7.50	\$5.00
8W	500	Warm white	Bayonet	270°	2800K	60W	SL-2230	\$11.95	\$10.00	\$7.50
8W	500	Warm white	Screw	270°	2800K	60W	SL-2231	\$11.95	\$10.00	\$7.50
8W	650	Natural white	Bayonet	270°	4000K	60W	SL-2232	\$11.95	\$10.00	\$7.50
8W	650	Natural white	Screw	270°	4000K	60W	SL-2233	\$11.95	\$10.00	\$7.50
8W	650	Cool white	Bayonet	270°	6000K	60W	SL-2234	\$11.95	\$10.00	\$7.50
8W	650	Cool white	Screw	270°	6000K	60W	SL-2235	\$11.95	\$10.00	\$7.50
10W	900	Natural white	Bayonet	270°	4000K	75W	SL-2216	\$14.95	\$12.50	\$10.00
10W	900	Cool white	Bayonet	270°	6000K	75W	SL-2206	\$14.95	\$12.50	\$10.00
10W	900	Cool white	Screw	270°	6000K	75W	SL-2207	\$14.95	\$12.50	\$10.00

18W PAR38 Outdoor LED Spotlight Globes

Finally an energy efficient alternative to power hungry outdoor halogen spotlights, that doesn't take several minutes to "warm up" like a compact fluoro! Using just 18W of power, and producing over 1,300 lumens of light, these globes are a DIRECT replacement for the 150W halogen globes found in outdoor spotlights and driveway sensor lights.

- IP55 rated
- Available in warm, natural and cool white colour temperatures
- E27 Edison screw base.

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Buy in bulk
and save \$\$



Power	Lumens	Colour	Base	Beam Spread	Colour Temp.	Equivalent Traditional Globe	Cat.	Qty 1+	Qty 2+	Qty 4+
18W	1300	Warm white	Screw	90°	2800K	150W	SL-2225	\$29.95	\$22.50	\$17.50
18W	1500	Natural white	Screw	90°	4000K	150W	SL-2227	\$29.95	\$22.50	\$17.50
18W	1500	Cool white	Screw	90°	6000K	150W	SL-2229	\$29.95	\$22.50	\$17.50

8.5W LED REPLACEMENT FLUORO TUBES & LAMPS

T8 LED Fluoro Replacement Tubes

Power consumption is more and more a focus these days with power bills ever increasing and with traditional T8 type fluoro tubes being one of the most common lighting sources in use, they are an easy target for reducing power bills both domestically and commercially. These LED T8 fluoro replacement tubes offer equivalent light output to a typical T8 fluorescent tube, but with half the power consumption, none of the annoying flicker, and often an increase in life expectancy. The upgrade is so simple with no rewiring required in most cases*; just remove the old fluoro tube and starter, and replace with the Viribright LED tube and starter (fuse). These are a "single side" powered tube that do not have a metal back, so are completely safe (unlike some tubes) and even have Australian electrical safety approval certificates.

- Available in 2 foot and 4 foot lengths, in either natural white or cool white colour.

Note: Not available in New Zealand

Specifications	SL-2285	SL-2286	SL-2282	SL-2283
Power	10W	10W	20W	20W
Lumens	900	1000	1800	2000
Colour	Natural White	Cool White	Natural White	Cool White
Base	G13	G13	G13	G13
Colour temp.	4000K	6000K	4000K	6000K
Lifespan	40,000 hours	40,000 hours	40,000 hours	40,000 hours
Beam spread	140 degrees	140 degrees	140 degrees	140 degrees
Equivalent traditional globe	18W T8 fluoro	18W T8 fluoro	36W T8 fluoro	36W T8 fluoro



* NOTE: Not compatible with electronic ballasts. Light fitting needs re-wiring if fitted with an electronic ballast.

For volume enquiries, please contact our Techstore for a quotation. Wholesale enquiries also welcome.

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Only available
in store



↑	Watts	Colour	Length(mm)	Cat.	Qty 1+	Qty 2+	Qty 4+
	10W	Natural White	600	SL-2285	\$24.95	\$20.00	\$15.00
	10W	Cool White	1000	SL-2286	\$24.95	\$20.00	\$15.00
	20W	Natural White	1200	SL-2282	\$39.95	\$30.00	\$25.00
	20W	Cool White	1200	SL-2283	\$39.95	\$30.00	\$25.00

2,600 Lumens 240V IP65 180 LED Light Fixture

This 240V LED light fixture is an ideal replacement for a traditional fluorescent light. It is energy efficient and produces a very bright 2,600 lumens. It is weatherproof and dustproof with its IP65 rating so it is suitable for both indoor and outdoor applications. Comes with mounting bracket and a 1.8m length of lead with mains plug.

Specifications	ST-3945
LED type	180 x SMD2835 Everlight
Driver efficiency	>0.88
CRI	>80
Colour temperature	5500K Cool White
Brightness	2,600 lumen
IP rating	IP65
Power	30W
LED lifespan	50,000 hours
Dimensions	675(L) x 135(W) x 93(D)mm

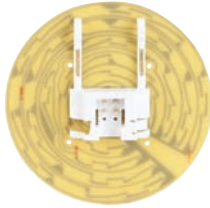


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3945	\$99.95	\$89.95	\$79.95

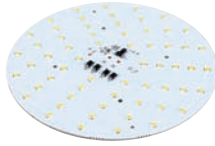
LED REPLACEMENT LAMPS FOR CARAVANS

LED Replacement Lamp for 2D Fluoros in Caravans

One of the most common lights used in caravans up until quite recently, is the 16W 2D fluoro. The problem with these is not only do they draw a lot of power for the light they produce, but they also blow very frequently, take a long time to "warm up", and they aren't very pleasant on the eye. This LED replacement lamp solves all that! The circular shape metal core PCB is backed with the same moulding as a normal 2D fluoro, so it fits into the same light socket - all you have to do is bypass the fluoro ballast and supply the lamp with 12VDC directly. No need to carry spare globes as the LED lamp is impervious to vibrations, and the LEDs are rated to last over 50,000 hours.



Specifications	ZD-0670
Input voltage	12VDC
Power	9W
Lumens	900
Beam	180°
LED type	60x2835 SMD
Dimensions	150(Dia.)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
↑ Cool White	ZD-0670	\$29.95	\$26.95	\$23.70

FLUORESCENT ADAPTORS

Fluorescent Tube Adaptors T5-T8



Easily convert traditional T8 fluorescent lighting to more energy efficient T5 series tubes using these tube adaptor sets. T5 tubes output the same light level as standard T8 tubes while consuming up to 40% less power. By comparison, LED replacements for fluorescent lights use similar power, and/or produce less light, and cost SEVERAL times more.

While many LED lighting options are available, we have specifically rejected LED fluoro replacements and chosen to sell these converters due to price, convenience and safety. Many LED tubes are known fail prematurely, with the electronics being poor quality, and the LEDs themselves being irregular in colour. Currently there are no mandatory electrical safety requirements for LED fluoro tube replacements and many common LED tube varieties pose a real electrocution hazard! By contrast T5 tubes are reliable and readily available in a brand name at a low cost, and are very safe; with these T8-T5 adaptors being approved by electrical safety standards. Lets not also forget the frightfully high cost of LED fluoro replacement tubes!

With T8 tubes commonly found in large area lighting systems for offices, schools, small businesses and warehouses the savings achieved using these adaptors adds up very quickly.

Installation couldn't be more simple - just remove the old T8 tube and starter, replace with the supplied starter-fuse, attach the two adaptor ends to your new T5 tube, install as per usual, and enjoy the power savings!

NOTE: Not suitable in T8 fittings with electronic ballasts.

Two models available:

SL-2746 for replacing 20W 590mm (2ft) T8 tubes with 14W T5 tubes
SL-2748 for replacing 40W 1200mm (4ft) T8 tubes with 28W T5 tubes



	Cat.	Qty 1+
↑ Replaces 20W Tubes	SL-2746	\$5.95
Replaces 40W Tubes	SL-2748	\$5.95

GLOBE HOLDERS

E14 12VDC Socket - (SES)

Suits E14 small Edison screw fluoro globes. Rated for 12VDC, suits compact fluoro SL-2850

- Base size: 40(Dia) x 42(H)mm
- Mounting holes 30mm apart.

TECH TALK!

MES means 'Miniature Edison Screw'



Not suitable for 240V

	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	PS-4072	\$4.95	\$4.45	\$3.90

Globe Holder

Standard MES globe holder (Torch globes).

- Suits SL-2654/6



	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	SL-2658	\$0.95	\$0.85	\$0.75

Bakelite Globe Holder

High quality MES globe holder with a round bakelite base.

- Wires are attached to the socket by screws.
- No soldering required.
- Holder can easily be screwed to a base plate.
- Diameter 33mm / Height 19mm.
- Suits SL-2654/6
- Ideal as a simple pilot lamp



	Cat.	Qty 1+	Qty 10+	Qty 50+
↑	SL-2659	\$2.95	\$2.60	\$2.30

Base

Base to suit both 35mm and 50mm lamps.

- Size 17(Dia.) x 9(H)mm.
- Cable length 120mm.
- Rating 100W 25V.



	Cat.	Qty 1+	Qty 10+	Qty 25+
↑	SL-2735	\$4.95	\$4.45	\$3.90

50mm Halogen Downlight Holder

Install your own halogen lamps in the ceiling with this holder. Simply drill a hole and this fitting pushes in and is held with clips. The halogen globe then pushes into the holder.

- Colour is white, complete with lamp base.
- For 51mm. Approx cutout is 60-65mm.
- Dimensions - total width at front 75mm. Depth 55mm.



	Cat.	Qty 1+	Qty 10+	Qty 25+
↑	SL-2738	\$6.95	\$6.25	\$5.50

TECH TALK!

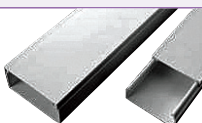
LED INFORMATION

Power supply requirements for LED lamps or lighting modules, such as our MR16 LED downlight replacement globes, can vary considerably and it is essential that a suitable power supply is used. Switchmode transformers, or "electronic transformers" that are designed to run halogen lights, should not be used with LED lighting modules or lamps unless they are specifically certified to do so. LED lamps are compatible with all types of magnetic (linear) transformers, but not all types of switchmode transformers. Most halogen lamp switchmode transformers require a minimum load to function correctly & output a high frequency pulse train based on the load requirements.

As LED lamps draw a fraction of the current of an equivalent halogen lamp (typically ~1/10th), this usually results in problems such as flickering, strobing, or in some cases, no light at all. It may also reduce the life expectancy of the LED lamp. It is essential the maximum input voltage of the LED lamp or module is not exceeded and the power supply can deliver the necessary current required in a linear manner. If using switchmode or electronic power supplies, make sure they are designed for use with LED lamps, otherwise use a linear power supply or a DC output power supply.

RELATED PRODUCTS

FROM
\$6.95
HP-1330



CABLE DUCT

P206

FROM
\$1.95
HP-0752



CABLE CLAMPS

P210

FROM
\$0.55
WH-3040



HEAVY DUTY HOOK-UP

P201

FROM
\$7.95
WH-5525



HEATSHRINK

P205

POWER & SMART ENERGY REPLACEMENT GLOBES

GLOBES

Illuminated Doorbell Globe

Replacement globe for our doorbell SP-0782 switch, can be used as a replacement for other brand doorbells.

- Length 27mm.
- Globe is 12V, but will work on lower voltages.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2720	\$1.95	\$1.75	\$1.55

12V Switch Globe

As used in our illuminated pushbutton switches
Cat. SP-0742/50/52/53



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2635	\$5.95	\$5.25	\$4.75

14V Car Alarm Switch Replacement Globes

Replacement globes for flashing switches / bezels for car alarms.

- BI - pin
- TI
- 2.54 lead spacing
- 14 volt.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2636	\$3.85	\$3.45	\$2.95

Mini Lamps



A large range of various sizes and voltages of mini lamps.
• Supplied with wiring cable pre connected.

Large Size	Volts	Cat.	Wire Colour
Globe size - 4(Ø) x 10mm	1.5	SL-2670	White
PVC lead length - 150mm	3	SL-2671	Red
Current - 0.1A	6	SL-2673	Blue
	9	SL-2674	Green
	12	SL-2675	Yellow

Small Size	Volts	Cat.	Wire Colour
Globe size - 3(Ø) x 7mm	1.5	SL-2680	White
PVC lead length - 100mm	3	SL-2681	Red
Current - 0.1A	6	SL-2683	Blue
	9	SL-2684	Green
Qty prices for one type only	12	SL-2685	Yellow

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	All Types Each	\$1.30	\$1.15	\$1.01

Lilliput Globes

- Total length 17mm.
- Width 4.5mm.
- Glass length 8mm.



↑	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
	6.3V 200mA	SL-2650	\$0.95	\$0.85	\$0.75
	12V 120mA	SL-2652	\$0.95	\$0.85	\$0.75

Miniature Edison Screw Globes

- Total length 27mm.
- Width 9mm.
- Glass length 14mm.



↑	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
	6.3V 250mA	SL-2654	\$0.85	\$0.75	\$0.65
	12V 100mA	SL-2656	\$0.85	\$0.75	\$0.65

TECH TALK!

HANDLING HALOGEN GLOBES

Due to the high temperature of the halogen globes the glass envelope can crack unless it is very clean. If you leave grease or fingerprints on the globe, clean the glass with methylated spirits (preferably) before using.

HALOGEN GLOBES

6V 55W Halogen Globe

Replacement globe to suit our ST-3300 halogen spotlights.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-3221	\$5.95	\$5.25	\$4.75

12V 5W Halogen Globe

- 12V @ 5W.
- 4mm pin spacing.
- 8mm pin length
- Total length: 30mm
- Bulb dia: 8mm
- Pkt 2



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-3216	\$5.95	\$5.25	\$4.75

12V 10W Halogen Globe

Halogen globe for illuminated fogger.

- 12V, 10 watts
- 4mm pin spacing.
- Pin length: 8mm
- Total length: 30mm.
- Bulb dia: 8mm
- Pkt 2



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-3217	\$5.95	\$5.25	\$4.75

12V 50W Halogen Globe

Same as 100W unit below, but this one is 50W.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2726	\$5.95	\$5.25	\$4.75

12V 100W Halogen Globe

These are used in hand held spotlights.



- Fitting and contact is by 2 pins which are 6mm apart.
- Length including pins is 40mm.

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2724	\$4.95	\$4.45	\$3.90

12V JC Halogen Globe

2 pin halogen globes.

- As used in some models of our garden lighting.
- Fitting and contact is by 2 pins, 22mm long, pin spacing: 3mm, 8mm dia, 8mm pins.



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2722	\$3.95	\$3.45	\$3.15

NEONS

90V NE2 Neon



Would you believe it? After about 100 years of orange-red neons we now can get blue and green ones! You'll buy one out of curiosity!

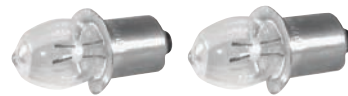
- Strike voltage: 82V
- Needs 270k resistor in series for 240V operation.

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	Orange/Red SL-2690	\$1.25	\$1.10	\$1.00
	Blue SL-2695	\$1.25	\$1.10	\$1.00
	Green SL-2696	\$1.25	\$1.10	\$1.00

TORCH GLOBES

Krypton globes give up to 70% more light output compared to standard globes.

Flange Type Krypton Torch Globes



2.2V 470mA				
• Suitable for 2 x AA batteries				Cat. SL-3200
2.4V 520mA				
• Suitable for 2 x C batteries				Cat. SL-3202
2.4V 700mA				
• Suitable for 2 x D batteries				Cat. SL-3204
2.4V 700mA				
• Suitable for 3 x D batteries				Cat. SL-3206
4.8V 750mA				
• Suitable for 4 x D batteries / Lantern				Cat. SL-3208

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	Pkt 2 All Types	\$2.95	\$2.60	\$2.30

2.5V Krypton Torch Globe - MES

- 300mA
- Suitable for 2 x 1.5V batteries
- Miniature Edison Screw



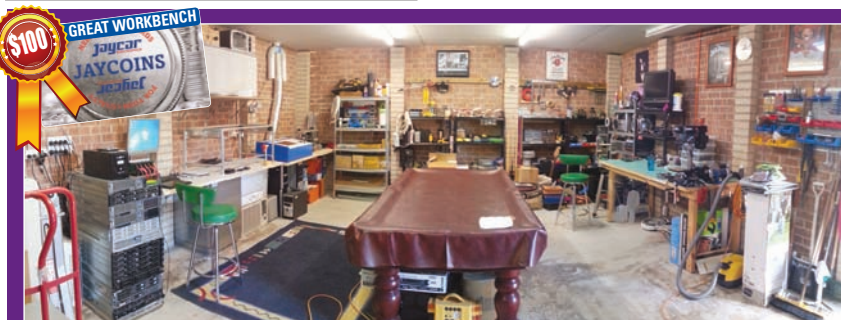
↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-3210	\$2.65	\$2.30	\$2.07

4.8V Krypton Torch Globe - MES

- 300mA
- Miniature Edison Screw



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	Each SL-3211	\$1.95	\$1.75	\$1.55



Workbench sent by: Radan - Jaycar Stockist: Nowra Electronics - Nowra

My workshed! Pretty much everything in it is salvaged from scrap or 2nd hand or bargain purchases. Took me a few years to get it this far.

For more details, visit:
www.jaycar.com.au/workbench

MOBILE DEVICE ACCESSORIES

3G Antennas	306
Brackets & Mounts	304
Chargers - Mains & Car	297
FM Transmitters	305
Leads & Adaptors	308
On-the-Go	307
Power Banks	302
Repair Kits	57
Speakers	309

OTHER MULTIMEDIA DEVICES

Digital Voice Recorders	312
DVD Makers	312
Power Boosters	307
Presentation Aids	312
Smartphone Photo Printer	311

HOME AUTOMATION

Home Automation	313
Controllers	313
Lighting	314
Security	314

Background image sent to us by Mike, South Island, NZ who shops at our Jaycar Christchurch store

"Hi-tech electronics, at home and on a tight budget.

The soldering iron, wire jumpers, helping hand, desk lamp and a few cables are all from Jaycar, by the way..."

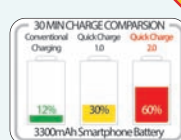
QUICK CHARGE™ TECHNOLOGY



Qualcomm® Quick Charge™ 2.0

Qualcomm® Quick Charge™ 2.0 Technology is the next generation of fast charging technology for Smartphones & Tablets powered by Qualcomm® Snapdragon processors. In laboratory tests using a 3,300mAh battery, a Quick Charge™ 2.0 enabled Smartphone went from

0% to 60% in 30 minutes. A device without using Quick Charge™ 2.0 using a conventional (5VDC, 1A) charger achieved only a 12% gain in the same time period. A Smartphone using Quick Charge™ 1.0 only managed to charge 30% in the same time period. See our website for compatibility list.



Quick Charge™ 2.0 10,400mAh Power Bank

When you're on the move and doubtful of your access to a secure & reliable power source, this portable power bank with Quick Charge™ 2.0 is definitely worth packing! Simply plug your device into the USB 2.0 port of the power bank to commence charging. The Quick Charge™ technology efficiently charges your compatible device up to 75% faster than standard and automatically detects the best charging mode for your device. The power bank also features short-circuit and overload protection. Four LEDs indicate the strength of the bank's battery and device charging status. Fully recharge the battery in approximately 7.5 hours by connecting the USB cable of the power bank to a PC or mains power source (with a USB adaptor). The power bank will also shut down automatically after 25 seconds of inactivity to ensure the battery isn't wasted. Works best with Android Smartphones and tablets equipped with Quick Charge™ technology. Please note that you can still charge devices not equipped with Quick Charge™ technology at their full standard charge rate up to 2.4A.

- Quick Charge™ Technology (Compliant with Qualcomm® v2.0)
- Up to 75% faster charging times
- Power saving function
- Easy to use LED status indicator

Specifications	MB-3729
Input	Micro USB socket
Output	USB 2.0 socket
Voltage Input	5VDC, 1-2A max
Voltage Output	5/9/12VDC
Current Output	5V, 2.4A / 9V, 1.67A / 12V, 1.0A
External input	2A, charging approx 7.5hrs
Charging time	
Dimensions	94(D) x 78(W) x 23(H)mm



Qualcomm® Quick Charge™ 2.0



	Cat.	Qty 1+	Qty 3+	Qty 6+
10,400mAh (Quick Charge™)	MB-3729	\$79.95	\$71.95	\$63.95

2.4A Quick Charge™ USB Car Cigarette Lighter Adaptor

Use this adaptor to convert your vehicle lighter socket into a single 2.4A USB charge socket. Suitable for fast charging all types of tablets and smart devices. It is equipped with a Smart Charge IC to intelligently determine the correct charge rate for your device, and will work with Quick Charge™ 2.0 compatible devices.

- Input: 12 - 24VDC
- Output: 5VDC 2.4A / 9VDC 1.67A / 12VDC 1.25A



	Cat.	Qty 1+	Qty 4+	Qty 10+
2.4A (Quick Charge™)	MP-3669	\$19.95	\$17.95	\$15.95

2.4A Quick Charge™ USB Mains Power Adaptor

This USB charger is specially designed with USB identification circuitry that makes it suitable for charging various brands of smartphones, tablets or any other USB power device at its full charge rate. Fully supports Qualcomm® Quick Charge™ 2.0 specification.

- Input: 100 - 240VAC 50/60Hz 0.35A
- Output: 5VDC 2.4A / 9VDC 1.67A / 12VDC 1.25A
- Short circuit protection
- Overvoltage protection (20V)
- Overload Protection

Qualcomm® Quick Charge™ 2.0



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A (Quick Charge™)	MP-3448	\$29.95	\$26.95	\$23.70

SMART TECHNOLOGY MOBILE DEVICE CHARGERS

MAINS USB CHARGERS

USB Power Adaptors

A simple solution to your USB power needs in a conveniently small package. Choose between the 1.0A model to charge mobile phones, MP3 players, cameras and other small USB charged devices, or the 2.1A model that can also charge Tablets and iPads. They also feature worldwide voltage input making them great for travellers. Just connect your USB charging cable (not included) and away you go.



Specifications	Both
USB	Socket A
Input voltage	100-240VAC, 50/60Hz
Output	MP-3455: 1.0A MP-3449: 2.1A
Dimensions	40(dia) x 27(L)mm

For our range of mains travel adaptors see page 272



	Cat.	Qty 1+	Qty 5+	Qty 10+
1A	MP-3455	\$14.95	\$13.35	\$11.70
2.1A	MP-3449	\$19.95	\$17.95	\$15.70

3A USB Type-C Mains Power Adaptor

Easily charge your Smartphone or tablet anywhere you go using this compact power adaptor. Plug into a mains outlet then connect your device using your USB Type-C power cable. Regardless of whether you connect a Smartphone, tablet or laptop, this adaptor will conveniently auto detect the device's ultimate charging requirements and charge accordingly. Built-in short circuit safeguard, overload protection and fully regulated output.



Specifications	MP-3445
Input Voltage	100-240VAC
Output Voltage	5VDC
Output Current	3A
Dimensions	57(L) x 54(W) x 28(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3.0A Type-C	MP-3445	\$29.95	\$26.95	\$23.70

Dual USB Mains Power Adaptor 2 x 2.1A - MFi

An ultra fast USB charger complete with 2 x USB sockets with 2.1A each, capable of charging virtually any mobile phone or USB device including all iPad®, iPhone® and iPod® models. Features worldwide voltage input making it great for travellers. Outputs 2100mA for each socket allowing it to charge 2 devices simultaneously. The perfect mobile device charging solution for your home and travel needs.

- Input voltage: 100-240VAC, 50/60Hz
- Output: 5VDC, 2.1A + 2.1A (4.2A total)
- Dimensions: 60(W) x 60(H) x 30(D)mm



Made for
iPod iPhone iPad

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x 2.1A	MP-3459	\$24.95	\$22.35	\$19.70

4 Port USB Mains Power Adaptor

This slimline 4.8 amp mains power adaptor allows you to charge four USB devices from one power socket, conveniently freeing up other power sockets for use. Just plug the adaptor into a standard AC power socket and connect the charging cables of your devices to the four USB ports. Great for homes or offices that are short on power sockets and big on power hungry devices.

Specifications	MP-3446
Voltage Input	100-240VAC
Voltage Output	5VDC
Current Output	4.8A Max / 2.4A Max (per port)
Dimensions	105(H) x 40(W) x 35(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
4 Port	MP-3446	\$29.95	\$26.95	\$23.70

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details



6 Port USB Powerboard

Charges up to 6 USB devices at a time and features a smart charging IC, which identifies the USB device connected and delivers the most suitable current for that device. It is compatible with numerous digital devices such as the most popular brands of MP3/MP4 players, portable gaming devices, digital cameras, Tablets, and Smartphones, including iPad®, iPhone®, and iPod® and Samsung®.

- Mains powered
- Power LED indicator

Specifications	MS-4068
Current Output	6.8A (Max)
	2 x 2.4A ports, 2 x 1A ports or 4 x 1.2A ports, 2 x 1A
Dimensions	190(L) x 40(W) x 32(H)mm

Note: Accessories not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Port	MS-4068	\$39.95	\$35.90	\$31.90

10 Port USB Charging Station

This USB charging station with its innovative design allows space for up to 10 tablets or Smartphones to be positioned side by side on top of the unit while charging. Multiple dividers can be easily positioned in one of the slots to accommodate for a variety of devices. It boasts a maximum power output of 2.4A per port, so even power hungry iPads® can be charged. Perfect for restaurants or retail shops who use tablets for ordering, schools and even the household with lots of devices. Includes 10 dividers and a 12VDC, 8A power supply.



- LED Charging Indicator
- Heat Radiation

Specifications	WC-7768
Current Output	8A (Max)
USB Current	2.4A (Each Port) / 800mA (10 Ports)
Power Output	96W
Power Supply	12VDC, 8A
Dimensions	238(L) x 133(W) x 25(H)mm

Note: Tablet, phones & cables not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Port	WC-7768	\$159.00	\$142.95	\$126.95



Workbench sent to us by: Richard
Jaycar Store: Christchurch NZ

All my electronics stuff is in this room. This is where the magic happens!

For more details, visit:

www.jaycar.com.au/workbench

MAINS USB CHARGERS WITH LEADS

Mains Power Adaptor for iPad®/iPhone®/iPod®

Mains power adaptor suitable for charging Apple® products including iPad®

- 30 pin connector
- Includes 1m USB charging/sync cable
- Input: 240VAC 50Hz
- Output: 5VDC, 2.1A



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.1A	MP-3457	\$19.95	\$17.70	\$15.70

Mains Chargers with USB Output for Smartphones & Tablets

A range of mains chargers with a USB output port to charge a variety of devices. Great as replacements or as a back-up. Each comes supplied with a 1m USB charge and sync lead to suit your specified device.

FOR iPhone® WITH LIGHTNING® CONNECTOR - 2.1A

MP-3540



MP-3540

FOR SAMSUNG® GALAXY TABLET - 2.1A

MP-3542

FOR SMARTPHONES WITH USB 2.0 MICRO B - 1.0A

MP-3544



MP-3544

FOR SMARTPHONES/TABLETS WITH USB 3.0 MICRO B - 2.1A

MP-3546

	Cat.	Qty 1+	Qty 5+	Qty 10+
With Lightning®	MP-3540	\$24.95	\$22.35	\$19.70
With Samsung® Galaxy Tablet	MP-3542	\$19.95	\$17.70	\$15.70
USB 2.0 Micro B - 1.0A	MP-3544	\$17.95	\$15.95	\$14.35
USB 3.0 Micro B - 2.1A	MP-3546	\$19.95		

Universal Mobile Phone Charger

Charges popular Smartphones, mobile phones and iPhone®/iPod® as well as some PDAs and MP3 players.

- Mains powered (100 - 240VAC)
- Output: 5VDC 1A regulated
- DC output USB port (female)

Plugs included:

- iPhone®/iPod® 30-pin
- USB Mini 5pin
- Sony Ericsson
- Motorola
- Nokia 2mm
- USB Micro B
- LG
- Samsung
- Nokia 4mm



iPhone® not included

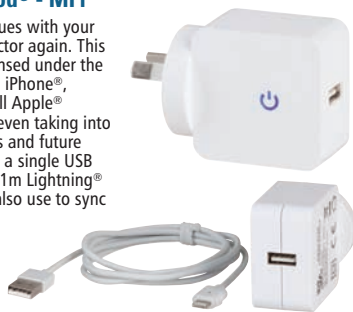
	Cat.	Qty 1+	Qty 5+	Qty 10+
1.0A	MB-3656	\$29.95	\$26.95	\$23.95

2.4A Wall Charger with Lightning® Lead for iPad®, iPhone®, iPod® - MFi

Never have charging compatibility issues with your Apple® device with Lightning® connector again. This 12W (2.4A) mains wall charger is licensed under the Apple® MFi program (made for iPad®, iPhone®, iPod®), so it is fully compatible with all Apple® devices with a Lightning® connector, even taking into consideration any future iOS® updates and future model releases. The main charger has a single USB output socket, and is supplied with a 1m Lightning® charge and sync lead which you can also use to sync your device to your home computer.

Specifications	MP-3547
Input	110-240VAC, 50/60Hz
Output	5VDC 2.4A
Lead length	1m

Made for
iPod iPhone iPad



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A	MP-3547	\$34.95	\$31.45	\$27.90

MAINS ADAPTORS WITH USB PORTS

Surge Protected Mains Double Adaptor with 2 x USB Ports

Provides 2 x mains sockets & 2 x USB sockets for recharging all manner of Smartphones & USB powered gadgets. Features a green grounded LED & red protected LED. Surge protected so you don't fry your valuable gadgets in the case of any power spikes.



PP-4037



MS-4087

Specifications	Both
Voltage	230-240VAC
Max current	10A
Max Power	2400W
Max energy	525J
Max spike current	18000A
Noise filter	150kHz-100MHz
Output Voltage	5VDC
Output Current	1A (PP-4037), 3.5A (MS-4087)
Dimensions	91(W) x 72(W) x 55(D)mm

⬆			Cat.	Qty 1+	Qty 4+	Qty 10+
	Double + 2 USB	1A	PP-4037	\$17.95	\$16.15	\$14.35
	Double + 2 USB	3.5A	MS-4087	\$29.95	\$26.95	\$23.70

240V GPO Wall Socket with 4 x USB 3.15A Output

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket. Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Ports	PS-4071	\$34.95	\$31.45	\$27.90

Detachable Wall Plate Double Adaptor with 2 USB Ports

A detachable wall plate adaptor that can be easily fixed to an existing single power outlet without opening and rewiring which adds 2 x USB ports. The 2 x USB outlets can charge and power your USB devices up to 3.1A in total. Using these two USB ports, you can turn any wall outlet into a mobile device charging station. This smart unit is embedded with surge protection, switchable light sensor night light and emergency light. It is compatible with widely used wallplates such as Clipsal, HPM, etc. Perfect for the kitchen, bathroom, or garage.



- 2 x USB outlets
- 2 x Mains power outlets
- Emergency light
- Light control night light in blue light

Specifications	MS-4009
Voltage	230-240V
Frequency	50/60Hz
Current	10A (Max.)
Power Rating	2400 Watt (max.)
Protection Mode	Fuse & MOV Protected
USB Outlets	5V, 3.1A (total)
Dimensions	134(L) x 95(W) x 38(D)mm (excluding pins)

	Cat.	Qty 1+	Qty 4+	Qty 10+
Double + 2 USB	MS-4009	\$39.95	\$35.90	\$31.90

SMART TECHNOLOGY MOBILE DEVICE CHARGERS

CHARGING HUB

4-in-1 Magnetic Charging Hub

An extremely convenient and attractive mains charger for your Smartphone or MP3 player. Comes with a variety of cables that magnetically connect to the charging hub to give more juice to your device.

- Sleek and compact, just sit it under your computer monitor and start charging!
- Over current/voltage protection

Specifications	MB-3651
Includes	30 pin iPhone® connector, Mini USB, Micro-B USB and Nokia connector
Output current	800mA
Output voltage	5V
Dimensions	80(Dia.) x 15(H)mm

Note: iPhone® not included

↑	Cat.	Qty 1 +
800mA	MB-3651	\$29.95

IN-CAR USB CHARGERS

2.4A Quick Charge™ USB Car Cigarette Lighter Adaptor

Use this adaptor to convert your vehicle lighter socket into a single 2.4A USB charge socket. Suitable for fast charging all types of tablets and smart devices. It is equipped with a Smart Charge IC to intelligently determine the correct charge rate for your device, and will work with Quick Charge™ 2.0 compatible devices.

- Input: 12 - 24VDC
- Output: 5VDC 2.4A / 9VDC 1.67A / 12VDC 1.25A
- Operating Temperature: -5 to 40° C

See our website for compatibility list.

↑	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
2.4A (Quick Charge™)	MP-3669	\$19.95	\$17.95	\$15.95

Dual USB Car Cigarette Lighter Adaptors

Simply plugs into your car's cigarette lighter socket to provide a USB charging source for your USB devices as you drive. The built-in smart charging IC identifies the device connected so that the optimum charging current is supplied to the Smartphone, Tablet, GPS and other USB devices. Two models to choose from.

2.1 AMP

2 x USB sockets with a total of 2.1A combined output power making it suitable for charging two mobile phones/iPods®/iPhone® or one iPad®/Tablet at the time. Cat. MP-3663

4.8 AMP

2 x USB sockets with total 4.8A combined output power making it suitable for charging almost any power hungry USB devices including 2 x Tablets at the same time. Cat. MP-3667

Specifications	MP-3663	MP-3667
Input	12-24VDC	12-24VDC
Output	5VDC, 2.1A combined	5VDC, 4.8A combined (2.4A+2.4A)
Dimensions	42(L) x 29(D)mm	42(L) x 32(D)mm

↑	Cat.	Qty 1 +	Qty 5 +	Qty 10 +
2.1A	MP-3663	\$9.95	\$8.95	\$7.95
4.8A	MP-3667	\$14.95	\$13.45	\$11.95

3A USB Type-C Car Cigarette Lighter Adaptor

Charge your USB Type-C devices in your car. This adaptor features a single USB Type-C port that will deliver a 5VDC 3A output. Plug it into your car's cigarette lighter socket and away you go. Allows you to charge Smartphones, tablets, MacBooks® and Google Chromebooks™.

- Input: 12-24VDC
- Output: 5VDC 3A
- Dimensions: 50(L) x 30(Dia)mm

Note: Product may vary to one shown

↑	Cat.	Qty 1 +	Qty 3 +	Qty 6 +
1 x USB	MP-3670	\$24.95	\$22.45	\$19.95
2 x USB	MP-3672	\$29.95	\$26.95	\$23.95

6.2A 4 Port USB Car Charger

Simply plug into your car's cigarette lighter socket, and you have a readily available USB charging source. An inbuilt smart charging IC it makes it suitable for charging various brands of Smartphones, Tablets or any other USB power hungry devices at their full charge rate. It has four USB sockets with total 6.2A combined output power to charge or power multiple power hungry USB devices.

Specifications	MP-3668
Input	12-24VDC
Output	5VDC, 2 x 2.1A + 2 x 1A (6.2A total)
Dimensions	80(L) x 45(W)mm

↑	Cat.	Qty 1 +	Qty 5 +	Qty 10 +
6.2A	MP-3668	\$24.95	\$22.50	\$19.70

IN-CAR CHARGERS WITH LEADS

iPhone®/iPod® Car Charger/Audio Kit

Suited to in-car stereo systems with 3.5mm audio-in socket to play music from popular, portable audio devices. Listen to your favourite songs from your iPhone®/iPod® using the integrated audio cable (with a 3.5mm stereo adaptor) while charging it via the supplied cigarette lighter adaptor. Lead length is 1.2m and USB output is 1A.

↑	Cat.	Qty 1 +
1A	MB-3653	\$9.95

4.1A Dual USB Car Charger with Micro USB Lead

Charge up to 3 USB devices as you drive with this nifty charger. It features a 2.1A USB port, 1A USB port and a 1A micro-USB plug on a 500mm lead, which can be neatly stored away when not in use by wrapping it around the blue backlit head of the device.

- Input: 12-24VDC

↑	Cat.	Qty 1 +	Qty 5 +	Qty 10 +
2.1 + 1A	MP-3665	\$19.95	\$17.95	\$15.70

In-Car Quick Charger for Smartphones

More and more non-Apple brand Smartphones and Tablets are using the USB Micro-B socket for charging, and are also needing more current to charge at full speed. With 2.1A of charge current available, this in-car charger is your buddy in the glove box, ensuring you get a full charge into your Smartphone or Tablet on the drive to work. A saviour when you forget to charge overnight.

Specifications	MB-3669
Input	12-24VDC
Output	5VDC 2.1A
Lead length	900mm with USB Micro-B connector

↑	Cat.	Qty 1 +	Qty 5 +	Qty 10 +
2.1A	MB-3669	\$14.95	\$13.35	\$11.70

In-Car Quick Charger for iPhone 5®, iPad® etc.

A handy in-car charger suitable for charging the latest Apple® brand gadgets such as iPhone 5® and iPad®, which have the new Lightning® connector socket. With 2.1A of charge current available, this in-car charger is capable of charging your Apple® device at full speed, ensuring you get as much charge as possible on your commute.

- Input: 12-24VDC
- Output: 5VDC 2.1A
- Lead length: 900mm with Lightning® connector

Compatible with

- iPhone 5®, iPhone 5s®
- iPad mini®, iPad® (4th generation)
- iPod Touch® (5th generation)
- iPod Nano® (7th generation)

↑	Cat.	Qty 1 +	Qty 5 +	Qty 10 +
2.1A	MB-3668	\$14.95	\$13.35	\$11.70

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

IN-CAR USB CHARGERS

Cup Holder Power Extender with Dual USB Sockets

Plugs into a single cigarette power socket and provides two cigarette power sockets and two USB power sockets, while sitting neatly in your vehicle's cup holder. The input lead is a 1.6m long curly cord, keeping tangled messy cords to a minimum, and the top features LED voltage indicators to show battery condition. The twin USB output sockets are very handy as pretty much everything charges from a USB port these days, meaning you can keep the cigarette power sockets free for other car accessories like the GPS.



Specifications	PS-2120
Input voltage	12VDC
Output voltage	12VDC
Maximum current	10A (fused)
USB outputs	5VDC 1.0A + 0.5A (1.5A total)
Dimensions	76(Dia.) x 65(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-2120	\$21.95	\$19.75	\$17.55

Cup Holder Power Extender with Phone Cradle & Dual USB Sockets

This clever charging system is designed to fit in a car cup holder to dock an iPhone® or iPod® in place preventing it from moving around while driving. It also neatly stores the charging cable away in the base to prevent clutter in the car's interior. Two cigarette lighter sockets are provided as well as a USB output for use with other electronic devices. Also has an LED indicator to state the level of your battery.



- 2 x 12VDC cigarette lighter sockets
- 2 x USB outputs
- iPhone®/iPod® holder
- Twist open bottom half
- Dimension: 100(H) x 70(Dia. base) x 92(Dia. top)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-2122	\$24.95	\$22.35	\$19.70

Car Battery Monitor with 3 x USB Sockets

Plugs into the car's cigarette lighter socket to display the car's battery voltage, and at the same time power your Smartphone, GPS and other USB powered devices via the 3 x USB ports. It is also suitable for trucks and large boats that run on 24V. You will need to provide your own USB charging lead.



- Input power: 12-24V
- Output power: 5VDC/3.1A total
- Dimensions: 60(W) x 30(H) x 28(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3 x USB	PP-2138	\$24.95	\$22.50	\$19.95

2.4A Car Charger with Lightning® Lead for iPhone®, iPad®, iPod® - MFi

This compact 12W car charger has the power to charge the latest iPad® iPhone® and iPod® models with Lightning® connector at the fastest charge rate. Not only does the charger have the power, but by being an official licensed "Mfi" (made for iPad®, iPhone®, iPod®) charger, you will never have issues with compatibility with your Apple® device now or into the future, even with iOS® updates and future model releases. The main cigarette charger has a single USB output, and the supplier Lightning® charge and sync lead can be used to sync your Apple® device to your computer at home.



- Input: 12VDC
- Output: 5VDC 2.4A
- Lead length: 1m

Made for
iPod iPhone iPad

	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A	MP-3660	\$29.95	\$26.90	\$23.70

UNIVERSAL IN-CAR CHARGERS

Universal USB Mobile Phone Car Charger

The handy universal solution to charging your mobile phone in the car. Included is a cigarette lighter USB car charger capable of delivering 5VDC up to 1A via the USB output, as well as a universal USB charging lead with 9 interchangeable tips to match all the most common mobile phones. You can also use it with any existing USB charging lead you may have.

Specifications	MP-3578
Input	12 - 24VDC
Output	5VDC, 1.0A

Plugs included:

- USB Mini 5pin
- iPhone®/iPod®
- LG
- Samsung
- Nokia 4mm
- USB Micro B
- Sony Ericsson
- Motorola
- Nokia 2mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP-3578	\$19.95	\$17.70	\$15.70

Universal GPS Charger with Dual USB Output

This very handy universal GPS charger not only works as a replacement for an original GPS charger, but having two USB outputs and higher output power offers a bonus - allowing you to charge both your GPS and your mobile phone (or other USB device) at the same time! With 2.1A available from each USB port, it has enough power for even the latest and greatest big screen GPS models, whilst still having enough power left over to charge a second USB device. Supplied with 1.2m USB charging lead and 6 replaceable connectors to suit most GPS models.



- Suitable for: TomTom, TomTom XL, Navman, Garmin, Magellan, Navigon, Falk, Mio, etc
- Input: 12-24VDC
- Output: 5VDC, 2.1A max per USB port (4.2A total)
- Dimensions: 100(L) x 42(W) x 25(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
1.2m	MP-3676	\$29.95	\$26.90	\$23.70

Car & Mains Mobile Phone Charger Pack

The handy universal solution to charging your mobile phone in the car or home. Included is a cigarette lighter USB car charger and a mains USB charger each capable of delivering 5VDC up to 1A via a USB output. The pack also includes a universal USB charging lead with 4 interchangeable tips to match common mobile phones. You can also use either charger with any existing USB charging lead you may have.

Specifications	MB-3655
Car Charger Input	12 - 24VDC
Mains Charger Input	100 - 240VAC
Output	5VDC, 1.0A

Plugs included:

- USB Mini 5pin
- USB Micro B
- iPhone®/iPod®
- Nokia 2mm
- Dimensions:
- Car Charger: 100(L) x 36(W) x 31(H)mm
- Mains Charger: 69(H) x 41(W) x 39(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
12-24V 1.0A	MB-3655	\$29.95	\$26.90	\$23.70

3A Car Power Adaptor with USB Outlet

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc. Many modern devices will also charge via the USB outlet.



Specifications	MP-3671
Input voltage	12VDC
Output voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output current	3A
USB output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm

See our range of
In-Car & Cigarette
Lighter Chargers
on pages 477-480



	Cat.	Qty 1+	Qty 3+	Qty 6+
Current 3A	MP-3671	\$29.95	\$26.90	\$23.70

SMART TECHNOLOGY MOBILE DEVICE CHARGERS

WIRELESS CHARGING PAD & CASES

Back-Up Battery Case to suit iPhone 5®

Eliminate the short battery life of the iPhone® 5 with this battery extender. Your iPhone 5® simply clips into this special battery case and will provide an extra 300 hours of standby time. It does not interfere with the iPhone® camera, headphone or charging sockets.

- Acts as a protective case
- You will hardly notice the extra thickness
- Battery capacity 2000mAh
- Colour: Black
- Charge time: 6 hours
- Additional talk time: 8 hours (approx)
- Standby time: 300 hours (approx)
- Dimensions: 135(L) x 60(W) x 15(D)mm



Note: iPhone® not included



↑	Cat.	Qty 1+
2,000mAh	MB-3695	\$29.95

Qi Wireless Charging Case for iPhone® 5

Qi, pronounced as "Chee", is a new standard for inductive electrical power transfer over distances of up to 4cm. Because not all smartphones support this standard yet, we're stocking some compatible cases that will allow wireless charging on some of the most popular models. A handy case that uses magnetic induction between planar coils which will allow wireless charging of your iPhone® 5 on a compatible Qi charging pad (see MB-3658). The phone slides perfectly into the case and docks with the connector inside allowing power transfer. The case design won't interfere with the headphone socket or other side controls. Also doubles as a protective case.

Specifications	MB-3662
Input voltage	5VDC 1A
Charging current	5VDC 500-1000mA
Transmission distance	4.5mm
Dimensions	80(L) x 56(W) x 1.3(D)mm



Note: iPhone® not included

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
1,000mAh	MB-3662	\$29.95	\$26.95	\$23.70

Qi Wireless Charging Pad

A sleek Qi charging pad for wirelessly recharging devices that support this exciting new standard. Qi charging allows electrical transfer over distances up to 4mm so all you need to do is sit your phone or Qi compatible device on top and it will start charging. A convenient and intuitive method for keeping devices charged without needing to keep track of a multitude of speciality charging packs used for Smartphones, Tablets etc.

We have suitable Qi charging accessories for the iPhone 5®, Samsung Galaxy® S3 and S4 which will allow wireless charging on this pad.

Specifications	MB-3658
Input voltage	5VDC 2A
Output voltage	5VDC 1A
Charging rate	100-200kHz
Wireless range	4mm
Charging voltage	5VDC
Charging current	500mA- 700mA
Charging voltage	5VDC
Charging current	500mA - 1000mA
Energy efficiency	Greater than 72%
Dimensions	153(L) x 83(W) x 10(H)mm



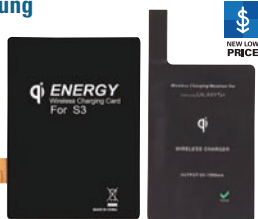
Note: iPhone® not included

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
700mAh	MB-3658	\$49.95	\$44.90	\$39.90

Wireless Qi Charging Pads for Samsung

Adhesive pads for the Samsung® Galaxy S3 and S4 that allow these phones to be wirelessly charged with a Qi compatible charger. Expose the 3m adhesive tab and attach to the back of your battery, line up the terminals, put your case back on, and the induction coils inside the pad will make wireless charging possible. No more tangled charging leads required! Clean and convenient.

Suitable Qi Charger see MB-3658



Specifications	MB-3664	MB-3665	MB-3666
Input voltage	5VDC 1A	5VDC 1A	5VDC 1A
Charging current	5VDC 500-1000mA	5VDC 500-1000mA	5VDC 500-1000mA
Transmission distance	5mm	5mm	5mm
Dimensions	60(L) x 50(W) x 1.3(D)mm	83(L) x 42(W) x 1.3(D)mm	63(L) x 47(W) x 1.3(D)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Charging Pad for Samsung® S3	MB-3664	\$19.95		
Charging Pad for Samsung® S4	MB-3665	\$19.95		
Charging Pad for Samsung® S5	MB-3666	\$19.95	\$17.95	\$15.70

BATTERY BANK - SMARTPHONE CASE

Adjustable Smartphone Case with Battery Back-Up

Extend the battery life on your Smartphone so you can talk, message, browse the web, and play games for many more hours compared to just the phone's battery. Simply fit your Smartphone into the universal case and it will provide up to 180 hours of standby time. The case adjusts from 120 to 160mm to fit most sized phones. The case does not interfere with the camera or headphone output on most models.



Common specifications:

- Built-in 3000mAh Li-polymer battery
- Slim design
- Charging time: 4 hours (based on 1A input)
- Standby time: 180 hours (approx)
- Dimensions: 135(L) x 59(W) x 18(D)mm

SUITS IPHONE® WITH LIGHTNING® PLUG - MB-3696

- Compatible with iPhone® 5, iPhone® 5S, iPhone® 6, iPhone® 6 Plus
- Licensed under the Apple® MFi program to ensure future iOS® or model releases

SUITS SMARTPHONE WITH USB MICRO B PLUG- MB-3698

- Compatible with Samsung® Galaxy S Series* and Note Series, LG®G2/G3, Nokia®, and other Smartphone brands
- * Excluding Samsung® Galaxy S5 model

NOTE: MB-3698 does not suit Smartphones with reversed Micro B USB socket configuration or sockets not situated on the side.

Note: Smartphone not included



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Lightning® Plug	MB-3696	\$64.95	\$58.45	\$51.95
USB Micro B Plug	MB-3698	\$59.95	\$53.95	\$47.90

POWER BANKS

iPhone® Battery Backup Module

This compact unit provides emergency power for your iPhone 5® and similar products. It is fitted with a Lightning® connector for your phone and a USB plug for the module to be recharged itself. This product will give you, on average, another 8 hours of use (depending on application.)

- Compact 73(L) x 69(W) x 10(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
1,500mAh	MB-3605	\$24.95	\$22.50	\$19.95

Power Bank with Removable 18650 Li-ion Batteries

Supplied with removable Samsung® 18650 Li-ion batteries, which provide high performance for their compact size, and can be easily swapped out for higher capacity cells over time. Charge the power bank using the supplied Micro B USB lead. 1A output to charge your Smartphone, iPhone®, iPod®, and other digital products.

- Compatible with all 18650 lithium-ion batteries
- Support hot plug-and-play
- LEDs to indicate charging, discharging and power status
- Li-Battery Protection IC
- MCU monitoring protection
- Recharging cut off voltage: 4.2V-4.25V smart identification
- Discharging cut off voltage: 3V
- Supplied with 1 x 18650 lithium-ion battery
- Input: 5V/1A (Micro USB)
- Output: 5V/1A (USB)
- Dimensions: 99(L) x 24(Dia.)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 20+
2,600mAh	MB-3717	\$29.95	\$26.95	\$23.95

5000mAh USB Power Bank with iPod® Charger

All the cables and adaptors sit in small compartments or wrap around the charger for added convenience. The battery bank can be recharged by connecting to a standard USB port.

- 5000mAh Li-ion battery
- USB Micro-B cable
- Included adaptor: USB Micro-B to 30-pin Apple Connector
- Dimensions: 113(L) x 58(W) x 15(H)mm



↑	Cat.	Qty 1+
5,000mAh	MB-3646	\$39.95

POWER BANKS (CONTINUED)

Quick Charge™ 2.0 10,400mAh Power Bank

When you're on the move and doubtful of your access to a secure & reliable power source, this portable power bank with Quick Charge™ 2.0 is definitely worth packing! Simply plug your device into the USB 2.0 port of the power bank to charge. The Quick Charge™ technology efficiently charges your compatible device up to 75% faster than standard and automatically detects the best charging mode for your device. The power bank also features short-circuit and overload protection. Four LEDs indicate the strength of the bank's battery and device charging status. Fully recharge the battery in approximately 7.5 hours by connecting the USB cable of the power bank to a PC or mains power source (with a USB adaptor). The power bank will also shut down automatically after 25 seconds of inactivity to ensure the battery isn't wasted. Works best with Android Smartphones and tablets equipped with Quick Charge™ technology. Please note that you can still charge devices not equipped with Quick Charge™ technology at their full standard charge rate up to 2.4A.

- Quick Charge™ Technology (Compliant with Qualcomm v2.0)
- Up to 75% faster charging times
- Power saving function

Specifications	MB-3729
Input	Micro USB socket
Output	USB 2.0 socket
Voltage Input	5VDC, 1-2A max
Voltage Output	5/9/12VDC
Current Output	5V, 2.4A / 9V, 1.67A / 12V, 1.0A
Charging time	2A, charging approx 7.5hrs
Dimensions	94(D) x 78(W) x 23(H)mm



Qualcomm
Quick Charge 2.0



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
10,400mAh	MB-3729	\$79.95	\$71.95	\$63.95

Power Bank USB Mains Power Adaptor

Our 2-in-1 power bank combines a wall charger and portable power bank into one convenient device. Features a detachable plug for you to carry the slim power bank more conveniently. If this 2000mAh 2-in-1 Power Bank ever runs out of juice, you can simply plug the 240v plug directly into a power outlet. Features LED indicator and pass-through charging technology, you can even charge the power bank and your device simultaneously.



Specifications	MP-3438
Input	100-240VAC
Output	5VDC, 1A
Battery Capacity	2000mAh
USB Socket	Type A
Dimensions	76(L) x 36(W) x 27(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
2,000mAh	MP-3438	\$39.95	\$35.90	\$31.90

Portable Rechargeable Power Banks

Compact and portable charger designed to charge your Smartphones and Tablets on the go. It comes with built-in USB and micro USB cables to suit most devices, and two built-in USB ports to charge other Smartphones via their original charging cable. Charge the power bank using the built-in USB cable from your PC or using a power adaptor (available separately). It has LED indicators to show you the battery status. Two different models to choose from.



MB-3724

MB-3726

Specifications	MB-3724	MB-3726
Battery type	Lithium polymer	Lithium polymer
Capacity	3.7V/5,000mAh	3.7V/10,200mAh
USB cable input	5V/1A	5V/1.3A
Output	USB port1: 5V/2.1A, USB port 2: 5V/1A	USB port1: 5V/2.4A, USB port 2: 5V/1A
Micro USB cable	5V/1A	-
Self charging time	12hrs (by laptop), 7hrs (by 5V/1A travel charger)	22hrs (by laptop), 10hrs (by 5V/2.1A travel charger)
Power display	5 LED indicators, each represent 20% of battery usage	4 LED indicators
Dimensions	108(L) x 64(W) x 16.5(D)mm, 140g	133(L) x 66(W) x 17.5(D)mm, 225g

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
5,000mAh	MB-3724	\$49.95	\$44.90	\$39.90
10,200mAh	MB-3726	\$69.95	\$62.95	\$55.95

Waterproof 10,400mAh Portable Rechargeable Power Bank

Boasting a huge 10,400mAh battery capacity this power bank will keep the dreaded battery low indicator on your Smartphone, Tablet or camera at bay. The double moulded housing is dust and waterproof, and features two USB ports; a 2.1A port to charge your power thirsty Tablet and a 1.0A port to charge your phone and other devices. The Battery Bank has a low self-discharge protection to prevent the internal batteries from dying out prematurely. A micro B USB lead is included when a recharge is required, indicated by the 4 blue LEDs on the top of the power bank.



- IP67 rated, waterproof dustproof also shockproof
- Energy-saving with auto-off function and low self-discharge
- Over-charge, over-discharge, over-current, short-circuit, and over-heat protection

Specifications	MB-3728
Battery type	Li-ion
Capacity	10,400mAh
Input	5V/2A
Dual Output	5V/3.1A combined
Charging time	5.5 hours
Compatibility	Smartphones, Tablets and devices powered by DC 5V input
Dimensions	145(L) x 75(W) x 25(D)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 20+
10,400mAh	MB-3728	\$109.00	\$97.95	\$86.95

POWER BANKS - SOLAR

4,000mAh Solar Rechargeable Power Bank

This portable battery bank and solar charger uses a high-performance polymer lithium-ion battery with a capacity of 4,000mAh to suit your power hungry devices. Plug the micro USB end of the enclosed cable into your device to supply power and recharge. Alternatively turn the cable around to recharge the unit after use from an alternative power source. The LED indicator on the front of the charger tells you when you'll need to recharge the internal battery. To recharge either use the USB cable or harness the power of the sun. The perfect power solution for when you're on the go and can't access an AC power outlet.

Specifications	MB-3723
Solar Panel	7.2V, 1W
Battery	3.7V Li-ion
Battery Capacity	4000mAh
Input Current	1A
Output Current	2.1A
USB Charging Time	3-4hrs
Solar Charging Time	14-15hrs
Dimensions	155(L) x 70(W) x 15(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
4,000mAh	MB-3723	\$64.95	\$58.50	\$51.95

Solar Mobile Recharge Power Bank

This foldable pocket size solar panel with a built-in lithium battery allows charging your gadgets whenever and wherever. You can either charge your device via exposing this product to sunlight or by connecting it to a power socket in your car or home. By using this product you can recharge a range of mobile phones, PDA's, MP3 players or digital cameras. Compact and convenient design featuring two USB sockets to charge USB compatible devices. An ideal companion for camping and/or travelling!

- Built-in USB charge and output cables
- LCD power display
- Foldable dual solar panel
- Rugged and strong design
- Anti-slip rubber paint finish



Specifications	MB-3720
Battery type	Lithium polymer
High efficiency solar panel	5.5V/620mA
Capacity	3.7V/6,000mAh
USB cable input	5V/1A
Output	USB port 1: 5V/2.1A, USB port 2: 5V/1A, Micro USB cable: 5V/1A
Self charging time	12 hours (by laptop), 7 hours (by 5V/1A travel charger), 10-12 hours (via solar panel, under full sunlight condition)
Power display	LCD
Dimensions	152(L) x 92(W) x 20(D)mm
Weight	295g



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
6,000mAh	MB-3720	\$119.00	\$106.95	\$94.95

SMART TECHNOLOGY MOBILE DEVICE MOUNTING BRACKETS

BRACKETS/MOUNTING FOR PHONES & TABLETS

Magnetic Mobile Phone Holders

No more adjusting clamps or clips with these magnetic mobile phone holders! The high strength magnet holds the phone in place allowing for quick placement and removal. Available in three versions with a suction or adhesive mount for the vehicle, all versions include an adjustable ball joint so you can tilt the phone to the optimal viewing angle. Suction mount models also include metal plates for attaching to phones without a non-magnetic housing. Plates are also thin enough to be inserted between phone and an existing protective case.

SHORT ARM SUCTION MOUNT CAT. HS-9054

- Mounts the phone close to the suction cup
- 60mm arm length
- 65mm diameter suction cup

LONG ARM SUCTION MOUNT CAT. HS-9055

- Extends the phone away from the suction cup
- 160mm flexible arm length
- 65mm diameter suction cup

Mini Ball Joint Adhesive Mount Cat. HS-9056

- Attaches unobtrusively to most surfaces
- 3M brand adhesive on ball joint base and magnet
- 30mm mount height
- 25mm diameter base

Smartphone
not included



	Cat.	Qty 1+	Qty 3+	Qty 6+
Small	HS-9054	\$19.95	\$17.95	\$15.95
Large	HS-9055	\$19.95	\$17.95	\$15.95
Magnetic Dash Phone Holder	HS-9056	\$19.95	\$17.95	\$15.95

Universal Dash & Windscreen Phone Holders with Sticky Grip

A quick, easy and secure way to hold your Smartphone as you drive. The special green silicon gel sticky material holds your phone in place so there's no need for custom phone bracket holders, working by sticking to the smooth surface of your Smartphone/device. It's so fast too, just press your phone onto the sticky pad, and that's it! The sticky pad doesn't leave any residue, and if it gets dirty it can be cleaned with water to return to an as-new state. Easy!

STICKY DASH / VENT MOUNT - HS-9050

Mounting is via a short dash mount suction bracket that has soft silicon gel, which can stick to almost any dash material, even textured vinyl. Also includes an air vent mount.

WINDSCREEN MOUNT - HS-9052

Includes a suction cup bracket that attaches to your windscreen, with an adjustable gooseneck arm to move your phone into position. The sticky phone end can also be rotated for portrait or landscape view.

Note: May not work with some phone covers. Requires a smooth, hard finish for the sticky to work



	Cat.	Qty 1+	Qty 3+	Qty 6+
Sticky Dash / Vent Mount	HS-9050	\$17.95	\$16.10	\$14.35
Windscreen Mount	HS-9052	\$17.95	\$16.10	\$14.35

12VDC Charger Cradle for iPhone® 3/4

Holds and charges your iPhone® as you drive. The holder plugs directly into the car cigarette lighter and has charging cradles to suit both iPhone® generations and a universal holder for other types of mobile phones. The iPhone® cradle doubles as a protector case whilst out and about and docks securely into the holder bracket when you get back in the car.

- Power: 12VDC
- Includes a case/cradle for both iPhone® 3 & 4

Note: iPhone® not included



	Cat.	Qty 1+
Charging Cradle	HS-9012	\$9.95

Transmitter/Charger/Gooseneck In-Car Holder

A necessary accessory to have for your iPhone 5® and iPod 5® in your vehicle. The bracket holds the device in place and charges the device through the Lightning™ connector. It has a built in FM transmitter that allows you to stream your conversation and music to your car's sound system for Hi-Fi reproduction. The unit connects to 12V power via the cigarette lighter socket and has a rigid gooseneck/swivel bracket to hold at the desired position.

- Range: 5m
- Frequency: 88 - 107MHz



NEW LOW PRICE

1 YEAR WARRANTY

Note: iPhone® not included

	Cat.	Qty 1+
Charging Cradle	AR-3125	\$24.95

Universal Suction Mount Phone Holder

Mounts to your car's windscreen or dashboard using the super strong gel type suction mount and supports phones up to 6 inches (150mm) in size (diagonally). The ball joint mechanism allows you to rotate 360 degrees to ensure you get the perfect viewing angle.



NEW LOW PRICE

1 YEAR WARRANTY

Note: Smartphone not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
360°	HS-9038	\$19.95	\$17.95	\$15.95

Smartphone Waterproof Case with Windscreen & Bike Mount

Keep your phone secured and protected but accessible while mountain biking, boating or for other outdoor activities. It will accommodate an iPhone® or Samsung Galaxy S3® with the use of a specially designed adaptor. The front of the case uses a flexible transparent rubber covering while the rear also has a clear rear cover for your camera. A 3.5mm cable connects to the phone inside and provides a socket so you can connect headphones while the phone is in the case. IPX8 waterproof design so will protect the device inside when fully submersed down to a 1m depth. Includes: IPX8 case, suction glass mount bracket and handle bar mount bracket.



- 3.5mm internal cable to allow the use of headphones
- Compatible with: Samsung Galaxy S3®, iPhone 5®, 4G, 4Gs, 3G, 3Gs, 2G and the iPod® Touch and mobile
- Dimensions: 170(L) x 86(W) x 22(H)mm

Note: iPhone® not included

1 YEAR WARRANTY

	Cat.	Qty 1+
IPX8	HS-9023	\$29.95

Universal Tablet Holder with Heavy Duty Suction Mount

Uses an extremely tough suction mount with a heavy duty adjustable gooseneck connected to a locking ball joint. The Tablet holder grip can be made wide or narrow by changing the grooves they're slid into. For a semi-permanent solution for Tablet access in a car, truck, or caravan this solution is ideal.



- Suitable for iPad®, Android® and surface Tablets
- Gooseneck 239(L) x 110(Dia.)mm
- Holder 185(H) x 165(L) x 135(W)mm

Note: iPad® not included

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9034	\$34.95	\$31.45	\$27.95

Magnetic Wall Mount for iPad®

This wall mount bracket enables you to safely mount your iPad® in a prominent location where you can easily find it (or use it). It grips the iPad® by its corners and you hardly notice its presence. It will stick to its magnetic pad straight to a fridge or filing cabinet etc or any firm flat surface with its magnet adaptor pad (2 x screws/plugs supplied.) You will love this simple product, hopefully before you sit on your iPad®!



NEW LOW PRICE

1 YEAR WARRANTY

Note: iPad® not included

	Cat.	Qty 1+
	HS-9013	\$17.95

BRACKETS FOR PHONES & TABLETS (CONTINUED)

Tablet Holder with Heavy Duty Suction Mount

Designed to be fixed in one position but can be easily adjusted if necessary, this holder will accommodate a variety of different sized Smartphones and Tablets for your car, truck, or van. The adjustable holder sits on a lockable ball joint for angular adjustments to get the perfect viewing angle. The holding vice (sides and bottom) can be slid out of their grooves and moved to a wide or narrow grip. Vertical height can be lowered or raised and the main arm can be locked at specific vertical angles. Features a suction mount for an extremely tight grip on a window or dash surface.

- Compatible with iPad®, Android®, surface Tablets
- Dimensions: 190(H) x 140(L) x 140(W)mm

Note: iPad® not included



	Cat.	Qty 1+	Qty 3+	Qty 6+
HS-9036		\$39.95	\$35.95	\$31.95

Waterproof Carry Case for iPad® & Tablets

IPX8 rating allowing full water submergibility and dust-proofing. It's great for recreational activities such as camping, kayaking, and boating.

- IPX8 waterproof rating
- Dimensions: 320(L) x 214(W) x 2(D)mm
- Fits tablets up to 243(L) x 190(W) x 13(D)mm



Note: iPad® not included

	Cat.	Qty 1+
IPX8	HS-9022	\$19.95

Waterproof Hard Tablet Cases with Suction Mount

Keep your Tablet safely protected inside one of these hard cases. Will protect against water, dust, and sludge. The screen protector is a tough flexible highly translucent silicone compound that has the gasket moulded into it. 3 locking tabs will ensure everything stays secured inside without the risk of an accidental open. There is a 3.5mm stereo audio plug which converts to a socket on the outside for connection to your car stereo or other speaker system. A clear plastic covered opening on the back will allow photos to be taken with the tablets camera. Both models come with a suction glass mounting bracket.

- IPX8
- Includes glass suction mount bracket

7.7" HARD TABLET CASE - HS-9027

- Suitable for iPad mini, Google nexus and most other 7.7" tablets
- Dimensions: 230(L) x 153(W) x 22(D)mm

10.1" HARD TABLET CASE - HS-9029

- Compatible with iPad & most other 10.1" tablets
- Dimensions: 290(L) x 219(W) x 22(D)mm



	Cat.	Qty 1+
7.7"	HS-9027	\$49.95
10.1"	HS-9029	\$59.95

SELFIE STICK

Selfie Pole with Bluetooth® Control

Just attach your Apple® or Android® Smartphone to this selfie pole and let the fun begin. Features Bluetooth® wireless technology to take photos and videos without the need to tap your phone. Simply pair the selfie pole with your phone and press the button on the grip. When the action is over, show off your artistry on Facebook®, Twitter®, Instagram® or YouTube®.

- Rechargeable battery
- Compatible with Apple® and Android® Smartphones
- Bluetooth® photo/video capture button
- Includes 2 brackets for 3.5-5.5" Smartphones

Specifications	QC-8068
Running time	up to 10 hours
Charging time	1 hour
Supports	iOS® 4.0+, Android® 3.0+
Dimensions	Extends from 235 to 1015mm



Remote Button



	Cat.	Qty 1+	Qty 4+	Qty 10+
QC-8068		\$29.95	\$26.95	\$23.70

FM TRANSMITTERS

MP3 FM Modulator with Remote - 12/24V

Simply plug in to your cigarette lighter socket, this unit will play MP3 tracks directly through your car stereo through the FM band. Music can be stored on an SD/MMC card, USB memory stick or an external media player (iPods®, MP3 players) can be plugged in via the auxiliary input. It has a backlit LCD and a fully adjustable arm for multi angle viewing. It also remembers the last played frequency, song and volume.

- Accepts SD/MMC, USB or aux input
- FM Frequency: 87.5 to 108MHz
- 12V - 24VDC operation
- Supports folders
- Includes infrared remote control and 3.5mm AUX lead
- Dimensions: 130(L) x 40(W) x 25(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
AR-3136		\$14.95	\$13.45	\$11.95

Rechargeable Visor Mount Handsfree Kit with Bluetooth® Technology

Safely and comfortably make and receive mobile phone calls whilst driving with this user friendly visor mounted Bluetooth car kit. This compact and lightweight kit features built-in highly sensitive microphone, high powered loudspeaker, and dual standby allowing two phones to connect simultaneously, which is very handy when you own two phones or share the car with another person. The built-in memory allows it to store up to 8 paired phone records.

- DSP full duplex technology
- Noise, echo and wind suppression
- Built-in rechargeable 600mAh Li-ion battery
- Sunvisor holder, USB cable and 12V car charger included



Specifications	AR-3134
Bluetooth version	V3.0+EDR
Bluetooth range of operation	0 to 10m
Hands-free talk range	0.5 to 2m
Talk time	6 to 10 hours
Charging time	3 hours
Input charging voltage	DC 5V (600mA)
Weight	60g
Dimensions	86(L) x 53(W) x 15(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
AR-3134		\$39.95	\$35.95	\$31.95

In-Car FM Transmitter & Charger to suit iPhone 5®

A convenient way to playback music from your iPhone 5® Smartphone through your car's sound system. It features a Lightning™ connector to charge an iPhone 5® and a 3.5mm plug for audio streaming through the FM radio band. The transmitter also has a microphone built-in so you can also enjoy handsfree conversations while driving. A handy USB port is featured on the back of the cigarette lighter plug for charging other phones, tablets and GPS devices.

Specifications	AR-3127
Range	5m
Frequency	88.1 - 107.9MHz
Power	5VDC
USB Output	5VDC 800mA
Stereo separation	40dB
Frequency response	20Hz-16000Hz
SNR	>= 45dB
Dimensions	100(L) x 30(W) x 12(D)mm

Note: iPhone® not included



	Cat.	Qty 1+	Qty 3+	Qty 6+
AR-3127		\$29.95	\$26.90	\$23.70

In-Car MP3/USB FM Modulator Transmitter for iPhone® & iPod®

Play your iPhone® or iPod® through the FM radio in your car. Plug into the cigarette lighter socket, then tune to the FM band to play and charge your iPod®, iPhone® or use the 3.5mm stereo cable to play any other MP3 player or auxiliary audio source. It also has a USB socket, so you can also play tunes from a flash drive. The strong clamp is adjustable to take devices from 40 - 80mm wide.

Specifications	AR-3113
Range	5m
Frequency range	88 - 107MHz
Dimensions	110(H) x 65(W) x 40(D)mm

Note: iPhone® not included



	Cat.	Qty 1+
AR-3113		\$24.95

SMART TECHNOLOGY MOBILE DEVICE ACCESSORIES

FM TRANSMITTERS (CONTINUED)

FM Transmitter with Bluetooth® Technology & 2.4A USB Charger

Allows you to transmit phone calls from a Bluetooth® enabled phone to your car's FM radio receiver.

Features a 2.4A USB charging port and will also play audio via the external input socket or MP3 files stored on USB disk or SD card. Auto switch between music and phone calls.

Powered by the vehicle lighter socket (12 or 24 volt).

- Includes remote control.



NEW 2016

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	AR-3133	\$44.95	\$39.95	\$35.95

In-Car FM Transmitter for iPhone®, iPod® & iPad® with Charger

Play music from your iPhone®, iPod® or iPad® through your car stereo while simultaneously charging the device. Simply connect the transmitter to your Apple device, select a frequency from 88.1 to 107.9MHz then tune in using your FM car radio. It also has a built-in mic for hands-free communication and a USB port built into the cigarette lighter plug for charging other popular electronic devices.

- Working voltage: 5VDC
- USB output voltage: 5VDC 800mA
- LCD display
- Built-in mic
- Apple® 30 pin connector
- Dimensions: 100(L) x 30(W) x 12(D)mm



Note: iPhone® not included

	Cat.	Qty 1+
↑	AR-3124	\$24.95

TRACKING DEVICES FOR iPhone®

Protective Case with Wireless Alert Keyring to suit iPhone 4®

Never leave your iPhone® behind again. Hidden within the lightweight protective case is a wireless transmitter that pairs with the small receiver that clips onto your keys or a belt loop on your pants. When the iPhone® and receiver become 2m apart the receiver will beep to alert you that you have left your iPhone® behind, or that someone may be stealing it. The protective case has a soft touch finish and features a slim retractable bracket to hold the iPhone® in a portrait or landscape position on a table. A USB charging cable is supplied to charge the case and keyring which operate for up to 58 hours on a full charge.

- Suits iPhone 4® & iPhone 4s®
- Alarm: 95dB
- Frequency: 2.4GHz
- Rolling code encryption
- Dimensions:
Case: 117(H) x 60(W) x 14(D)mm
Keyring alarm: 60(H) x 24(W) x 14(D)mm



Note: iPhone® and keys not included



	Cat.	Qty 1+
↑	Keyring Alert XC-0364	\$24.95

Keyring Locator with App & Bluetooth® Technology for iPhone®

An electronic leash that will sound an alarm when your iPhone® leaves your vicinity. You can also use your iPhone® to find the lost keyring thanks to the duplex communication protocol. A handy app is available which will show on Google Maps® the last time the keyring and phone were connected.

Specifications	XC-0365
Bluetooth® protocol	4.0
Search range	20m
Batteries	Includes 1 x CR2032 button cell
Battery life	3-6 months
Dimensions	60(L) x 35(W) x 10(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
↑	Keyring Locator XC-0365	\$29.95	\$26.95	\$23.70

AUTOMATIC ACCOUNT

For Schools, Government Departments,
Public Companies, Radio & TV Stations

SCREEN CLEANER

Screen Cleaner Kit for Small Devices

This handy screen cleaner is suitable for all small screens including iPhone®, mobile phones and cameras. The unique cleaning solution removes fingerprints, dust and stains without scratching the screen. Supplied with a washable microfibre finger cloth and a 12ml cleaning solution bottle.

- Drip-free cleaning solution
- Includes 12ml cleaning solution bottle
- Dimensions: 90(H) x 45(W) x 22(D)mm



iPhone® not included

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AR-1415	\$4.95	\$4.45	\$3.90

3G ANTENNAS

3G Antennas - 800 to 2100MHz with FME Connector

Using 3G wireless internet in certain areas may require the help of an antenna to boost the signal for a reliable flow of data. Both of these antennas feature a very strong magnetic base so you can fix it to the roof of your car or any other steel surface.

They both support frequency ranges of 850,1800 and 2100MHz. The cable is terminated with an FME connector.

- 5dBi 2m Cable Cat AR-3310
- 7dBi 3m Cable Cat AR-3312



	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	5dBi	290mm	AR-3310	\$49.95	\$44.90	\$39.90
	7dBi	950mm	AR-3312	\$69.95	\$62.95	\$55.95

3G 7dBi 850 - 2100MHz Fibreglass Antenna

Built for maximum range and performance, the antenna is required if you need a reliable 3G/4G signal while on the road. It comes with a 5m cable with FME connector to suit a range of popular wireless devices and mobile car kits.

Specifications	AR-3311
Supports	GSM, CDMA, UMTS
Frequency	850 - 2100MHz
Gain	7dBi
Cable	5m RG58a/u
Suits	trucks, cars, 4WDs
Dimensions	747(L) x 18(Dia.)mm



	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	7dBi	747mm	AR-3311	\$129.00	\$115.95	\$102.95

SMA ADAPTORS

SMA Adaptors & Leads

Boost the reception on your 3G/4G USB modem or mobile phone - great if you live in or travel to rural areas. The adaptors plug into the antenna socket on your USB modem to extend the signal range. For devices without an SMA connection use the AR-3330 induction adaptor.

SMA TO INDUCTION 3G PLUG - 510MM

SMA ADAPTOR TO HUAWEI E160/618 PLUG - 500MM

SMA ADAPTOR TO SIERRA TS9 PLUG - 500MM

SMA ADAPTOR TO TELSTRA 4G USB MODEM LEAD - 490MM

LOW LOSS SMA EXTENSION LEAD - 5M

CAT. AR-3330

CAT. AR-3332

CAT. AR-3334

CAT. AR-3336

CAT. WC-7824



AR-3330



AR-3332



AR-3334



AR-3336



WC-7824



↑	Cat.	Qty 1 +	Qty 4 +	Qty 10 +	
	Induction 3G Plug	AR-3330	\$16.95	\$14.95	\$13.35
	Huawei E160/618 Plug	AR-3332	\$16.95	\$14.95	\$13.35
	Sierra TS9 Plug	AR-3334	\$16.95	\$14.95	\$13.35
	Telstra 4G USB Modem Lead	AR-3336	\$16.95	\$14.95	\$13.35
	Low Loss SMA Extension Lead	WC-7824	\$34.95	\$31.45	\$27.90

ON-THE-GO

TECH TALK!

USB OTG (ON-THE-GO)

This is a specification which enables users to connect a standard USB input device, such as a computer mouse, keyboard, and sometimes a USB thumb drive to USB devices such as Smartphones.

USB 2.0 OTG Female A Plug to Right-Angle Micro Male B Plug

Connect a USB peripheral to a USB OTG compliant mobile/portable electronic device, such as your Smartphone.

- Length: 150mm



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC-7725	\$4.95	\$4.45	\$3.90

USB A Socket to Samsung® OTG Adaptor

Allows you to connect a USB peripheral such as a USB flash drive or USB hub to your Samsung® Galaxy Tablet.

- Length: 220mm



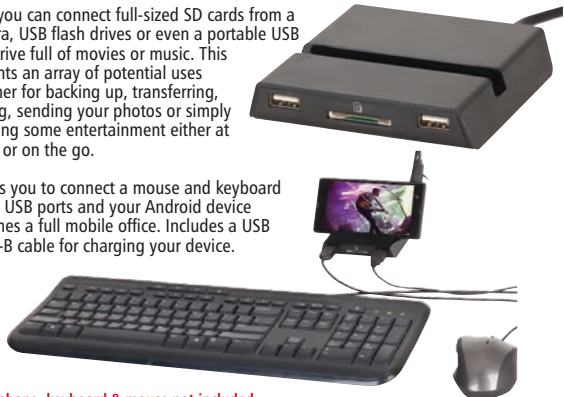
Cat.	Qty 1+	Qty 4+	Qty 10+
WC-7747	\$4.95	\$4.45	\$4.00

Android OTG Hub & Card Reader Dock

This OTG Dock for Smartphone and tablets provides a convenient way to access expanded storage on your Android device. The device connects to your Android phone or tablet using the attached Micro B USB cable, opening up access to the 3 onboard USB ports and SD card slot.

Now you can connect full-sized SD cards from a camera, USB flash drives or even a portable USB harddrive full of movies or music. This presents an array of potential uses whether for backing up, transferring, editing, sending your photos or simply enjoying some entertainment either at home or on the go.

Allows you to connect a mouse and keyboard to the USB ports and your Android device becomes a full mobile office. Includes a USB Micro-B cable for charging your device.



Smartphone, keyboard & mouse not included

Specifications	WC-7765
Interface	USB 2.0
Inputs	3 x USB 2.0 ports, 1 x SD slot
SD Storage	up to 32GB SDHC / 64GB SDXC
Dimensions	95(L) x 95(W) x 18(H)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
WC-7765	\$24.95	\$22.50	\$19.95



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MEDIA - FLASH DRIVES

OTG USB Flash Drives

USB Flash Drive features OTG (On-the-Go) to transfer data from your laptop or PC to your Android® device and vice versa. Extremely lightweight, and feature a USB connector on one end and a micro USB connector on the opposite end.

- Dimensions: 28.1(L) x 12.25(W) x 4.5(D)mm

Smartphone not included

Transcend®



	Cat.	Qty 1+
16GB	XC-5622	\$34.95
32GB	XC-5624	\$54.95

USB Flash Drive with Lightning® Connector - MFI

Using this device you can expand the storage of your existing iPhone®, iPad® or iPod®. It allows you to store, organise, and transport any type of files. Simply just drag-and-drop the files right from your computer. It works with all iPhone®, iPad® and iPod® with Lightning® connectors.

- Free app available on iTunes®
- 4GB microSD card included. Expandable up to a 128GB microSD card
- Dimensions: 65(L) x 27(W) x 7(D)mm

Made for iPod iPhone iPad



Cat.	Qty 1+	Qty 3+	Qty 6+
XC-5628	\$84.95	\$76.50	\$67.95



POWER BOOSTERS

2.1A USB Port Power Booster

A small device that plugs into the USB port of your computer to provide a faster charge to a Smartphone or Tablet. Without this device, a standard computer USB port will only slow charge a Smartphone and in many cases not charge a Tablet at all. The intelligent circuitry within this booster detects the device connected and automatically switches to the full speed charging mode up to 2.1A.

- Compatible with all Smartphones and Tablets, including iPad®
- Supports Apple®, Samsung® and HTC®
- Input voltage: 5V
- Output current: 2.1A
- Dimensions: 45.5(L) x 18.5(W) x 11(H)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
XC-5700	\$9.95	\$8.75	\$7.75

Power Boosting Lead for iPhone®/iPad®/iPod® - MFI

Using this device you can enhance the power to your iPhone®, iPad® or iPod®. This allows you to reliably charge your device when connecting it to a computer USB port. Simply plug your device into the lead. It works with all iPhone®, iPad® and iPod® with Lightning™ connectors.

- Current Output: up to 2.1A
- Cable Length: 1m

Made for iPod iPhone iPad



Cat.	Qty 1+	Qty 3+	Qty 6+
WC-7741	\$29.95	\$26.95	\$23.70



Power Boosting USB A to USB Micro B Lead

Using this device you can enhance the power to your Android and Windows® Smartphone or Tablet. This allows you to reliably charge your device when connecting it to a computer's USB port. Simply plug your device into the lead. It works with all Android and Windows® Smartphones or Tablets.

- Current Output: up to 2.1A
- Cable Length: 1.8m



Cat.	Qty 1+	Qty 3+	Qty 6+
WC-7743	\$19.95	\$17.95	\$15.70



SMART TECHNOLOGY MOBILE DEVICE CHARGE & SYNC LEADS

SMARTPHONE LEADS

USB A to USB Micro B Lead



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
500mm	WC-7723	\$5.95	\$5.25	\$4.75
1.8m	WC-7724	\$9.95	\$8.75	\$7.75

Sync/Charge Lead for Galaxy Tab®

Sync/charge lead to suit Samsung Galaxy Tab.

- Length: 1m



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7680	\$9.95	\$8.75	\$7.75

USB 3.0 Male A to Micro B Lead

USB 3.0 Male A to Micro B Lead - 1.8m



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7774	\$14.95	\$13.45	\$11.95

3-in-1 MFi USB Lead

This 3 in 1 USB lead has MFi license for iPod®/iPhone®/iPad® and are made to offer 2.4A output power charging as well as synchronise data. A USB cable with a micro USB plug, a 20 pin and an 8 pin Lightning® adaptor, this one cable will cater for all your Smartphone charging and syncing requirements.



Made for
iPod iPhone iPad



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7748	\$29.95	\$26.95	\$23.70

USB Charge/Sync Lead for iPad®/iPhone®/iPod®

Suitable for Apple® iPhone®, iPod® and iPad® with 30-pin Apple® connector.



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	WC-7689	\$4.95	\$4.45	\$3.90
1m	WC-7693	\$7.95	\$6.95	\$6.25
3m	WC-7688	\$9.95	\$8.75	\$7.75

USB Charge/Sync Lead for iPad®/iPhone®/iPod®

Replacement cables for connecting iPods® with Apple's® 30 pin connector (iPod Clickwheel®, iPod Mini®, iPod Photo® etc) to a Mac®.



Length	Cat.	Qty 1+
1m	WC-7692	\$9.95

LIGHTNING® ADAPTORS & LEADS

USB Charge & Sync Lead to suit Lightning® Plug

Suitable for the New Generation of Apple® devices. A Lightning® connector lead for charge or data sync with units such as iPhone 5® and iPad mini® to any USB port.



BEST SELLER

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7728	\$14.95	\$13.35	\$11.70

Lightning® Plug to USB Adaptor Cable - MFi Approved

Charge or sync your Lightning® socket equipped iPhone® 5, iPad®, or other Apple® device with this MFi approved Lightning® plug to USB adaptor. MFi approval means you will get maximum compatibility and reliability as it is officially approved by Apple®.



Made for
iPod iPhone iPad

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7731	\$19.95	\$17.70	\$15.70
3m	WC-7733	\$34.95	\$31.45	\$27.95

Lightning® Plug to 30 Pin Apple® Socket Adaptor

A range of adaptors suitable for connecting the iPhone 5® and other Apple® devices using the new Lightning® connector to peripherals that use the 30-pin Apple connector such as iPhone® docks, chargers, and more.



Note: This Adaptor is intended for charging and syncing only.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Adaptor	WC-7726	\$14.95	\$13.35	\$11.70
Lead	WC-7727	\$14.95	\$13.35	\$11.70

Micro-B USB to Lightning® Plug Adaptor

Allows your iPhone 5® or other Apple® device with a Lightning® connector to be charged or synced with your computer with a micro-b USB cable.

- Dimensions: 32(W) x 17(D) x 7(H)mm



Note: This Adaptor is intended for charging and syncing only.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Adaptor	WC-7729	\$9.95	\$8.75	\$7.75

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POWER BANKS

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XC-4302



USB HUBS

P335

SMARTPHONE/TABLET VIDEO CONVERTERS

MHL to HDMI Converter with 11 Pin Samsung® Adaptor

Mobile High-Definition Link (MHL) is a new feature built into popular Smartphone and Tablet devices, which enables full HD 1080p video output from the Micro-B USB port. Connect this MHL to HDMI Converter to your HDTV (HDMI cable not included) to view full 1080p video at 30/60Hz or mirror everything on and from your MHL equipped device. Supplied with an 11 Pin Micro-B Adaptor for use on Samsung® S3/4 or Note 2.

The converter requires USB power (power cable not included) which can connect to a USB power adaptor or from a USB port on an HDTV.

- Supports resolutions up to 1080p @ 30/60Hz
- Supports device mirroring
- Supports most Android Smartphones & Tablets
- Lead Length: 90(L)mm
- Dimensions: 53(L) x 28(W) x 11(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WQ-7424	\$24.95	\$22.35	\$19.70

Micro HDMI Plug to HDMI Socket Adaptor

Connects your Smart phone, camera or other device with micro HDMI socket to any TV with a HDMI connection.

- Colour: Black
- Gold plated connectors



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3649	\$9.95	\$8.75	\$7.75

For more HDMI adaptors see page 353

AV LEAD FOR SMARTPHONES & MP3 PLAYERS

3.5mm 4 Pole Plug to 2 x 3.5mm Socket Lead

Allows you to connect a separate microphone and stereo headphones or earphones to a Smartphone instead of using a combined earphone with built-in mic.



↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	250mm	WA-7020	\$6.95	\$6.25	\$5.50

3.5mm 4 Pole Socket to 2 x 3.5mm Plug Lead

Allows you to connect headphones or earphones with in-built microphone to a laptop or desktop with audio and microphone inputs.



↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	150mm	WA-7022	\$6.95	\$6.25	\$5.50

SMARTPHONE INSTRUMENT/MIC LINKS

Microphone for Smartphones

Turns your Smartphone or Tablet into a powerful audio recorder. The microphone allows you to record up to 12dB louder compared to the device's built-in microphone, making it ideal for recording lectures, interviews, voice memos and so on. The device is compatible with almost all Apple®, Android® and Blackberry® devices. Simply plug this efficient metallic microphone into your mobile device and enjoy an easy real-time audio recording experience.

Specifications	AM-2050
Type	9.9mm Black Electret diaphragm capsule condenser microphone
Polar Pattern	Cardioid
Sensitivity	-45dB +/- 2dB, 0dB=1V/Pa (1kHz @ 1Pa)
Frequency response	20Hz - 20kHz
Dimensions	70(L) x 12(Dia.)mm, 15g



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2050	\$39.95	\$35.95	\$31.95

Guitar Link for Smartphones

An easy-to-use adaptor that allows you to connect your electric or bass guitar, synthesizer, keyboard or similar instruments to an iPhone®, iPad® or iPod®. The built-in preamplifier boosts the signal, making it suitable for recording on your iOS® device (using the freely available App), or for connecting to an amplifier using the aux-out, which also accepts headphones if you want to play without disturbing the neighbours.

The interface features 6.5mm (1/4") mono input and output jacks and a stereo 3.5mm (1/8") headphone/aux out jack. Using a freely available iOS® App you can record what you are playing to play back and share later.

- Requires 2 x AAA batteries
- Dimensions: 80(L) x 60(W) x 20(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2052	\$39.95	\$35.90	\$31.90

Instrument & Microphone Link for Smartphones

Converts your iPhone®, iPad®, iPod® into a portable recording studio. Just connect it via the 3.5mm jack plug in a microphone or guitar to get recording with your favourite music-making app. The Link features phantom power to power condenser mics, and a headphone output to monitor from your iOS® device.

Supplied with two AA alkaline batteries.

- XLR mic input for recording with studio-quality microphones
- 1/8" (6.3mm) headphone output for monitoring app output
- Hi-Z guitar input for great-sound recording
- Phantom power for condenser microphones



Specifications	AM-2054	Guitar Input	
XLR and 3.5mm TRS inputs		Connector	1/4" (6.3mm) phone jack
Input level	-42dBu - + 2dBu	Nominal input level	21dBV
Maximum input level	+2dBu	Maximum input level	-10dBV
Input impedance	2.4kΩ	Input impedance	470kΩ
Power requirements	2 AA batteries (when using the microphone input)		
Operating time	up to 15 hours		

Connection plug in for iPhone®/iPad®/iPod® Touch	
Connector	3.5mm 4 pole plug, 150mm
Cable length	490mm
Dimensions	120(L) x 63(W) x 35(H)mm
Phones/line out connector	1/8" (3.5mm) stereo mini jack



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2054	\$69.95	\$62.95	\$55.95

WIRELESS SPEAKER

Near Field Audio Wireless Speaker

Simply place your Smartphone on top of this speaker to wirelessly amplify the music playing from its loudspeaker, without the need for any configuration or connection whatsoever. This is made possible by using NearFA® (Near Field Audio) technology, which also uses far less power compared to its Bluetooth® and Wi-Fi counterparts. The speaker will last up to 10 - 15 hours using 3 x AA batteries (not included) and with no extra drain on your phones battery life when playing music. It can also be powered via USB and a 3.5mm audio-in socket is provided for use with other audio devices.



Suitable with iPod Touch® (4th generation), iPhone® 3/GS, iPhone® 4/4S, iPhone® 5, Samsung Galaxy SII/SIII and many more...

Specifications	XC-5220
Frequency response	100Hz - 20kHz
Output	2W x 2 RMS, 1 x bass booster
Requires	3 x AA batteries (not included)
5VDC power in	
3.5mm audio-in jack	
Dimensions	155(L) x 71(W) x 38(H)mm



iPhone® not included



↑	Cat.	Qty 1+
	NFA	XC-5220
		\$24.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



SMART TECHNOLOGY PORTABLE SPEAKERS

SPEAKERS WITH BLUETOOTH® TECHNOLOGY

Waterproof Shower Speaker with Bluetooth® Technology

This waterproof shower speaker brings your favourite music to your bathroom. Listen to music wirelessly from your Bluetooth® enabled Smartphone or laptop, and take calls wirelessly at the touch of a button. The device comes with a suction cap that allows you to stick it to any flat surface, and is powered by a built-in battery that can be charged with the supplied USB cable.

Specifications	XC-5630
Maximum Range	10m
Charging Time	3 hours
Operating Time	5 hours
Dimensions	93(L) x 85(H) x 45(D)mm, 99g



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5630	\$34.95	\$31.45	\$27.90

Portable Rechargeable Speaker with LED Mood Light & Bluetooth® Technology

Add some music and colours to the atmosphere, wherever you are. This funky looking portable speaker brings everyone into the mood with a hemispheric LED light that grooves to the music it is playing. And it is not only about the looks, the rechargeable speaker is highly functional too with as many audio options as the number of colours it has in its mood light. There is Bluetooth® for wireless connectivity, SD Card/USB input for portable media, audio line-in for backward compatibility and even FM radio if you just want to relax and let others take control.

Specifications	XC-5224
Output power	3W
Frequency response	150Hz-18KHz
Impedance	4 Ohm
Battery capacity	600mAh
Dimensions	115(L) x 75(H) x 75(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5224	\$49.95	\$44.90	\$39.90

Rechargeable Waterproof Speaker with Bluetooth®

This portable waterproof speaker is perfect for listening to your music in the bathroom, at the beach, by the pool or while camping. It's rugged and portable design make this unit a perfect companion for outdoor activities. Once the speaker is paired with your Bluetooth® enabled Smartphone you can enjoy all of your favourite music. It also features a built-in microphone so you can take phone calls and have conversations through the speaker. For direct connection, there is a 3.5mm aux jack and a micro-USB charging port.

- Package Includes USB charging cable and 3.5mm stereo audio cable

Specifications	XC-5213
Bluetooth® Version	3.0+EDR
Frequency Response	150-18kHz
Loud Speaker	2 x 4WRMS with Radiator Bass
Signal and noise ratio	≥75dB
Battery	1,800mAh
Operating range	10 metres
Charging / Playback	Approx 2 hrs / Approx 8 hrs
IP Rating	IP66
Dimensions	195(L) x 75(W) x 55(H)mm, 440g



Product may vary to one shown

	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® Rechargeable	XC-5213	\$69.95	\$62.95	\$55.95

Rechargeable Waterproof Bluetooth® Speaker

A rugged, fully waterproof speaker for summer days at the beach, river, or when you're camping. Simply pair it with your Bluetooth® enabled Smartphone and you can play back music with ease. You can even have phone conversations through the speaker thanks to the in-built microphone. For those who are without Bluetooth®, there's a 3.5mm aux jack at the rear. Black shock resistant rubberised edges and handles make this a perfect companion for outdoor activities. Recharge with the supplied mains adaptor and USB cable.

- Fully waterproof shock resistant design
- Integrated full range stereo speakers
- Stainless steel speaker grill cover
- Built in rechargeable Lithium battery 7.4V 1800mAh 10 hour play or talk time
- 3W class D amplifier
- Built in mic with noise cancelling
- Hands free speakerphone
- Dimensions: 230(L) x 102(W) x 67(D)mm



IT FLOATS!



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® Rechargeable	XC-5208	\$149.00	\$133.95	\$118.95

SPEAKERS WITH NFC & BLUETOOTH® TECHNOLOGY

Portable Speaker with NFC & Bluetooth® Technology

A portable speaker that allows you to carry your favourite music to anywhere you are. The near field communication (NFC®) feature allows you to effortlessly connect any NFC® enabled device to the speaker system wirelessly with a single touch. Without wires your music is streamed to the stereo speaker. At the same time using Bluetooth®, you can connect your Smartphone, Tablet or any Bluetooth® enabled computer. The device is supplied with USB charge cable and 3.5mm stereo aux-in cable. It has its own volume control and wireless range up to 10m. The speaker allows you to answer a phone call by just a click on the button located on the top.

- Microphone and hands free support
- Aux in, 3.5mm stereo socket
- Bass Diaphragm to reproduce ultra-low frequency sounds
- Built-in rechargeable battery

Specifications	XC-5209
Output power	2 x 2WRMS
Range	10m
Frequency response	90Hz - 18kHz
Impedance	4 OHM
Charging time	3.5 hours
Playback time	max volume: approx. 5 hours, 80% volume: 6.5-7 hours
Dimensions	165(L) x 65(H) x 35(W)mm

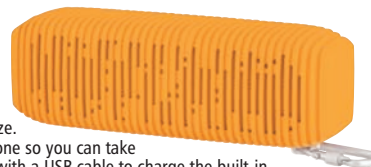


	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5209	\$44.95	\$40.45	\$35.95

Rechargeable Waterproof Speaker with NFC & Bluetooth® Technology

Forget the cords and cables - connect your Smartphone or laptop to this rechargeable speaker wirelessly via Bluetooth® or NFC®. It has a stylish design and with its bass diaphragm produces amazing sound for its size. It also features a built-in microphone so you can take phone calls hands-free. Supplied with a USB cable to charge the built-in 1800mAh Li-ion battery that provides up to 5 hours listening time. A 3.5mm stereo audio cable is also included to connect other devices. Supplied with a micro USB chargeable cable and a 3.5mm audio cable.

Specifications	XC-5219
Output power	2 x 3WRMS
Frequency response	90Hz - 18kHz
Impedance	4ohm
Sensitive	80dB ± 2dB
S/N Ratio	> 65dB
Distortion	< 1%
Charge time	3.5 - 4.5 hours
Listening time	4 - 5 hours
Power supply	Built-in battery or micro USB 5V
Dimensions	186(L) x 62(H) x 56(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
NFC & Bluetooth®	XC-5219	\$79.95	\$71.95	\$63.95

SPEAKERS WITH WI-FI TECHNOLOGY

Wi-Fi Audio Streaming Speaker

Connect to your Wi-Fi network and play music across the network from your Tablet or Smartphone using the freely available App or from your PC using Airplay or a DLNA enabled player. Featuring a multi-room broadcasting play system that allows music to be streamed to single or multiple speakers filling every room with dynamic high quality sound.

- Supports SD/USB/AUX
- Rechargeable and stylish design
- Supports DLNA and Airplay
- Multi-room broadcasting play
- Audio stream from Spotify and Pandora
- Supports internet radio



Note: Smartphone not included

Specifications	XC-5230
Output power	2 x 8WRMS
Speaker size	2 x 2.5"
Frequency	80Hz to 20kHz
Battery capacity	7.4V 1,800mAh (Built-in)
Run time	5 hours (With Wi-Fi) 8 hours (Without Wi-Fi)
Charging time	4 hours
Inputs	3.5mm Aux / Up to 64GB SD card / Up to 64GB USB Stick
Dimensions	200(L) x 95(H) x 85(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wi-Fi	XC-5230	\$139.00	\$124.95	\$110.95

WIRELESS HOTSPOT

Wi-Fi Multi Card & USB Reader

This clever device creates a secure Wi-Fi hotspot so you can share and transfer files from your memory cards and USB storage devices wirelessly between your computers, Tablets, and Smartphones. It has an internal rechargeable battery so you can use it for up to 3 hours without power. If you connect a 3G USB dongle the device will become a 3G router allowing internet access for Wi-Fi devices. It has been tested on HDD up to 1TB. Supplied with USB to Micro-B USB power/charge cable.



- Simultaneously read/write - CF, SD, MS, M2, TF and microSD
- Simultaneously read/write to 3 USB devices
- Up to 20m Wi-Fi range
- Up to 8 users can access simultaneously
- 1000mAh rechargeable battery for up to 3 hours wireless use



Recommended apps for transferring files from your portable devices:

- iOS - WDFPlayer
- Android - ES File Explorer
- Dimensions: 105mm x 65mm x 11mm



↑	Cat.	Qty 1+
	YN-8426	\$59.95

SMARTPHONE PHOTO PRINTER

Photo Printer for Android® Devices

This photo printing station is compact, simple to set-up and easy to use. Just plug in your mobile device and start printing! It runs on an all-in-one ribbon and photo paper cartridge and creates high-quality prints directly from your Smartphone, Tablet or digital camera via the Bolle Photo Plus app. The printer system will also charge the battery of your device so you won't deplete your charge while printing. Within the app you can make colour adjustments, print up to 10 copies at once, create panorama photo collages and even create greeting cards. Using your Smartphone you can create panorama photos, and the printing station will accommodate the long, landscape print in vivid colour. This system is the perfect choice for young kids and the not-so computer savvy, as it's simply plug-and-play with zero hassles.

- Only requires one single ink and paper cartridge for ease of use
- Charges devices while printing

ANDROID® COMPATIBLE - CAT. XC-5067

Dock compatible with Android® Smartphone (OS 2.0 and above only). USB compatible with digital cameras (PictBridge). Download the "Bolle Photo Plus" App from the Google® Play store.

Specifications	XC-5067
Printing Method	Dye Sublimination Thermal Transfer
Resolution	300dpi
Gradation	256 gradation / 16.7 million colours
Format	JPEG
Image file size	Supported maximum 3MB
Colour print size	Regular 100 x 150mm (4" x 6"). Panorama 100 x 282mm (4" x 11.1"), 100 x 417mm (4" x 16.4")
Printing time	55 sec
Dimensions	176(W) x 155(D) x 102(H)mm
Weight	1.4kg



Smartphone not included



↑	Cat.	Qty 1+
	Android® Compatible	XC-5067 \$69.95

ANDROID MIRROR CABLE

Android PC Mirror USB Cable

Mirror your Android device onto your Windows PC. This clever device displays what you see on your Android device's screen directly on your Windows computer screen. Use the mouse and keyboard to take control, access and transfer data, send texts, send emails, check Facebook, play games and screen your phone calls. If your computer network (eg. workplace) prevents you from browsing social media and checking personal emails, this cable allows you to still access them via your data-enabled Smartphone with it discretely hidden away so the boss doesn't see. Supports all major brands of Android Smartphones and tablets such as Samsung®, HTC, Sony, LG, etc.



Laptop and Smartphone not included



- Full Keyboard & Mouse Control
- Call & Message Notifications
- Screen Mirroring & Rotate
- Screen Magnification & Data Transfer
- Charges Smartphone & Tablets

Specifications	WC-7682
Interface	USB 2.0
Android Support	OS 4.0+
Charging Rate	500mA
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP
Dimensions	179(L) x 19(W) x 10(H)mm

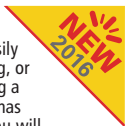


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2m	WC-7682	\$59.95	\$53.95	\$47.90

PROJECTOR

Mini AV Projector with HDMI, USB and VGA Input

An amazingly useful LED projector with small size and lightweight. Easily packs away and portable on your next getaway for movies and gaming, or connect it to virtually any device at home or office. Capable of beaming a picture from the size of 20" all the way up to 100", this little projector has also the connectivity to match its rivals 10 times of its price. To start you will have the essential HDMI input for your HD devices such as Blu-ray player or gaming consoles, then the USB and SD sockets to read your flashdrives and memory cards, there is also the VGA connector for laptop presentations and even an RCA lead for any legacy devices. An absolutely must have if you're expecting a tiny LCD screen or an ancient CRT at your next destination. Supports external speakers.



- LED lamp life up to 50,000 hours
- Picture size from 20" to 100"
- Built-in Speaker & Audio-out
- Low noise
- Low power consumption



Specifications	XC-5213
Projection distance	1.2m - 3.6m
Native resolution	480 x 320
Supports resolution	1920 x 1080
Aspect ratio	16:9 & 4:3
Brightness	60 Lumens
Input voltage	12VDC/2A
Power	25W
Dimensions	170(L) x 115(W) x 70(H)mm



↑	Cat.	Qty 1+	Qty 6+
60 Lumens	AP-4000	\$119.00	\$106.95

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar



Electronics Trade Card which entitles you to substantial discounts on most Jaycar products.

Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

DIGITAL VOICE RECORDERS

Digital Voice Recorders

2GB Digital Voice Recorder

A simple one key to record digital voice recorder. Has 2GB of inbuilt memory capable of recording up to 41 hours of sound and will auto-save the file if the battery is low. Other notable features include voice-activated recording which is great for use in lecture theatres or presentations. Files can be played back or deleted on the device with ease. Includes USB cable and earphones.

- Requires 2 x AAA batteries
- HP 27 hours, SP 41 hours, LP 41 hours
- Compatibility: Windows 10, 8.1, 8, 8, Vista, XP, 2000, Mac OS X® 10.0+
- Dimensions: 102(H) x 30(W) x 17(D)mm

XC-0387



4GB Digital Voice Recorder

A sleek and intuitive rechargeable voice recorder with touch buttons. Included is a generous 4GB of memory capable of capturing up to 69 hours of high quality audio. Quick one-key recording means you won't miss an important part of a speech or radio broadcast. You can also set it to VOR (voice operated recording) and let the device record whatever it hears. Includes a 3.5mm audio socket and earphones for playing back your files. A solid voice recorder ideal for students, journalists, musicians, private investigators, and business people.

- 4GB of internal memory
- Quick record: Slide 'REC' to the top
- Micro USB connection to PC
- Recording time: 69 hours in high quality mode
- Built in 350mAh lithium battery
- Compatibility: Windows 10, 8.1, 8, 8, Vista, XP, 2000, Mac OS X® 10+
- Dimensions: 120(H) x 30(W) x 10(D)mm

XC-0389



	Cat.	Qty 1+	Qty 4+	Qty 10+
2GB	XC-0387	\$69.95	\$62.95	\$55.95
4GB	XC-0389	\$99.95	\$89.95	\$79.95

CONVERT VIDEO TAPE TO DIGITAL

Economy DVD Maker

An easy to connect USB to video adaptor which allows you to capture high quality video and audio through a USB 2.0 interface to burn your own high definition DVD/VCDs. It's capable of real time recording MPEG 4/2/1 video formats. The compact size makes it ideal to take along anywhere. Operating couldn't be easier; with the one touch grabber; simply push the button to start and push again to stop.

System requirements

- Pentium-IV 1.6GHz or higher (recommended)
- 256MB RAM
- Graphics card (must support DirectX 9.0c)
- Sound card
- 1GB free HD space
- Windows 8.1, 8, 7, Vista, XP, 2000

Specifications	XC-4991
Interface	USB 2.0
Video Input	Composite (RCA), S-Video
Audio Input	RCA Audio in
Capture video sources	VHS, V8, Hi-8, etc
Video & video formats	DVD, SVCD, VCD, MPEG-4, AVI, WMV, WMA, MP3
Image formats	JPEG, BMP
Compatibility	Windows 8.1, 8, 7, Vista, XP, 2000
Dimensions	52(L) x 50(W) x 27(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
PC only	XC-4991	\$39.95	\$35.90	\$31.90



USB 2.0 DVD Maker

Turn your aging collection of VHS and Betamax video tapes into new video productions or record live video straight to your DVD or CD burner. This powerful video recording and editing system will help you make your own DVD movies or family documentaries and uses the latest MPEG-4 compression to produce high-quality real-time recordings from practically any AV source. The powerful editing software lets you add colour and transition effects as well as sound tracks and titles to your work. Send copies of your completed movies on DVD or VCD to your friends and family and keep them up-to-date with the goings-on at home. The USB interface makes connection a snap so you can be making movies and editing them in no time. Powered by the USB connection.

- Supports USB 1.1 & 2.0 Plug-and-Play
- Resolution up to 720 x 576 @25 fps (PAL) or 720 x 480 @30fps (NTSC)
- Composite Video input via RCA connector or S-Video mini-DIN
- Stereo audio input via RCA connectors
- Audio output via 3.5mm stereo plug
- Capture box: 35(W) x 95(D) x 15(H)mm
- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® X 10.5+



	Cat.	Qty 1+	Qty 4+	Qty 10+
PC or Mac®	XC-4867	\$64.95	\$58.45	\$51.95

BUSINESS CARD SCANNER

USB Business Card Scanner

Scan and organise business card contacts simply to your computer. It is powered by USB and uses a 2MP sensor with fixed focus to capture clear images. The included Optical Character Recognition software extracts text from the business card then categorises the information into different fields, which can be linked to your mail client (eg. Outlook). Compact and portable, and doubles as a webcam with microphone. Supplied with a mini USB lead.

- Export to mail clients like Outlook
- Identifies text fields for Company name, Address, Phone number and more
- Supports multiple languages
- Sensor: 2MP
- Interface: USB 2.0
- Still Image: BMP/JPG
- Illumination requirements: 150 to 2 Lux
- Compatible with Windows 8.1, 8, 7, Vista, XP, Mac OS® X 10.4+, Linux
- Dimensions (folded): 95(L) x 37(W) x 14(D)mm



	Cat.	Qty 1+
	QC-3130	\$19.95

PRESENTATION AIDS

Keyring Laser Pointer

This laser keyring pointer is chrome plated, and has a keychain attached. Requires 3 x LR44 batteries, which are supplied.

- Very small, only 70mm long x 13mm dia
- Wavelength 670nm / Max output < 1mW
- Do not stare into beam

This laser pointer has passed Australian Standards for laser pointers. AS/NZS 2211.1:1997.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3102	\$14.95	\$13.35	\$11.70

TECH TALK!

Laser radiation. Do not stare into beam. Class 2 laser products

Pen Style RF Presenter with Laser Pointer

For professionals such as teachers and lecturers who frequently use PowerPoint presentations but don't want to be tied to their computer. You can cycle back and forward through slides, blank the screen (PowerPoint only), or use the units laser to highlight key points in presentations. Hassle free plug and play, no need for fiddling with installation. The USB receiver is integrated into the pen unit for easy transportation and usage. The receiver unit conveniently includes a MicroSD card slot you can use it as an MicroSD card reader.

- Compatible with Windows and Mac®
- Control distance: Up to 10m
- Laser distance: Up to 200m
- Laser wavelength: 650nm
- Battery: Requires 1 x AAA (included)
- Dimensions: 133(H) x 22(W) x 17(Dia)mm



This laser pointer has passed Australian Standards for laser pointers. AS/NZS 2211.1:2004.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5410	\$34.95	\$31.45	\$27.90

Plug-in Laser Pointer for iPod®/iPhone® with App

Simply plug this nifty device into the headphone socket on an iPhone®, iPod®, or even iPad® and it becomes a convenient laser pointer. A great tool for teachers, lecturers, or for use in business presentations. The free iOS app allows you to flash the laser at certain intervals or adjust the brightness. It also double as a stylus for finer control of your touchscreen.



This laser pointer has passed Australian Standards for laser pointers. AS/NZS 2211.1:2004.

	Cat.	Qty 1+
	XC-5412	\$19.95

ECONOMY RANGE HOME AUTOMATION

You do not have to spend tens of thousands of dollars to create a smart home. With our new low cost range of Wireless Home Automation and Alarm system, you can create a fully automated system and only spend a few hundred dollars.

Simplicity and ease of use was in mind during the design; all sensors, controllers and switch modules are all wireless operating reliably on 433MHz frequency at a maximum range of 100m (line of sight). The main controller uses a very simple rotary switch for sensor and controller programming; very similar to what you see in

expensive European systems, making system programming a breeze. Although very affordable, the system incorporates very powerful features:

- 16 sector wireless alarm system
- 16 sector wireless home automation devices
- Timer schedule programming
- Group programming
- Matrix (Scenes) programming
- 100 Alarm event memory

See below & next page
for accessories to suit

Home Automation Main Controller

A powerful controller with built-in 16 wireless alarm zones and 16 wireless home automation control. Easily interfaces with a wide range of wireless security devices such as a PIR motion detectors, magnetic reed switches, light sensors and remote key fobs to protect your home and property. It also controls home automation devices such as mains 240V switcher module, 12V switcher module, light dimmer controller module, infrared controller and a wireless external bell box.

With the built in timer schedule programming, you are able to turn device(s) on or off automatically. E.g. Turn your lights on with the LA-5594 240V mains controller; turn your television or air conditioner with the LA-5597 Infrared controller at a specific time of the day or night.

Group programming is a handy feature for day to day activities. This allows you to turn up to a 5 output devices at once. Imagine coming home from work and opening your garage with the LA-5155 key fob remote control and the lights to your garage and living room, the television and air conditioner all turn at the same time. All you have to do is sit in your favourite couch and enjoy that ice cold beverage.

The Matrix or Scenes programming is a very powerful feature. It enables you to program wireless sensors to turn home automation device controllers on or off. Program the LA-5157 infrared sensor to turn a light on when activated. Set your LA-5598 light sensor module to open your curtains in the morning. The possibilities are endless and are limited to your imagination.

Main controller comes with a mains power adaptor with a provision for a 9V battery (not included) back for memory.



Specifications	LA-5592
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz

	Cat.	Qty 1+	Qty 2+	Qty 4+
Main Controller	LA-5592	\$149.00	\$133.95	\$118.95
Key FOB Remote	LA-5155	\$24.95	\$22.35	\$19.70
PIR to suit	LA-5157	\$49.95	\$44.90	\$39.90

Entry Level Home Automation Package

We've put together an affordable home automation system package to help take out the guess work, and saves you money at the same time. The Home Automation Main Controller has 16 built-in wireless alarm zones and 16 wireless home automation controls. It easily interfaces with a wide range of wireless security devices such as a PIR motion detector, magnetic reed switch, light sensor and remote key fob to protect your home and property. Group programming is a handy feature for day to day activities. This allows you to turn up to a 5 output devices at once. The Matrix or Scenes programming enables you to program wireless sensors to turn home automation device controllers on or off. Main controller comes with a mains power adaptor (LA-5594). The wireless PIR (LA-5157) expands the capabilities of your Wireless Alarm System. Reed switches (LA-5158) are appropriate for monitoring doors, windows or other dry contact devices.

The package also includes 2 x AAA batteries for PIRs and 2 x AAA for the reed switch and a 9V battery (SB-2423) for the main controller's backup function.

PACKAGE INCLUDES:

1 x Wireless Main Controller	LA-5592
1 x 240VAC Mains Controller	LA-5594
1 x Key Fob	LA-5155
1 x Wireless PIR	LA-5157
1 x Wireless Reed Switch	LA-5158
4 x AAA Batteries	SB-2413
1 x 9V Battery	SB-2423



See below & next page
for accessories to suit

	Cat.	Qty 1+
Home Automation Package 1	LA-5591	\$269.00

HOME AUTOMATION ACCESSORIES (SUITS OUR ECONOMY RANGE ABOVE)

240VAC Mains Switch Controller Module to suit LA-5592 Home Automation Main Controller

A compact wireless 240VAC Mains switch module to interface with our Home Automation Controller. Designed to be hard wired to your GPO, wall switches or other mains device, it enable you to remotely activate any mains appliances. Turn lights on and off, motors, heaters via the home automation main controller and input devices such as PIR, Reed Switch, key fob remotes and light sensors.



Specifications	LA-5594
Voltage input	240VAC
Output Signal	NO or NC
Maximum Load	5A @ 240V
Wireless Range	100m line of sight
Wireless Frequency	433MHz

Note: A licensed electrician is highly recommended to hard wire this device into 240V mains wiring.



	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-5594	\$49.95	\$44.90	\$39.90

Wireless PIR Sensor to suit LA-5592 Home Automation Main Controller

Expand the capabilities of your LA-5592 Home Automation System with additional PIR detectors.



Specifications	LA-5157
Voltage input	Requires 2 x AAA batteries
Wireless Range	100m line of sight
Wireless Frequency	433MHz
Dimensions	1049H) x 60(W) 39(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-5157	\$49.95	\$44.90	\$39.90

HOME AUTOMATION ACCESSORIES (SUITS OUR ECONOMY RANGE ON PREVIOUS PAGE)

12VDC Switch Controller Module to suit LA-5592 Home Automation Main Controller

This controller module is good for switching 12V devices such as lamps, cameras, doors and garage roller doors. Control wireless via the LA-5592 Main Controller via Time schedule, manual and Matrix or pair with the LA-5155 Key Fob Remote Control for use as a wireless switch.

Specifications	LA-5595
Voltage input	12VDC
Output Signal	NO or NC
Maximum Load	3A @ 14V/ 2A @ 24V
Wireless Range	100m line of sight
Wireless Frequency	433MHz



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
12V Switch Controller	LA-5595	\$69.95	\$62.95	\$55.95

Wireless Infrared Controller to suit LA-5592 Home Automation Main Controller

A learning infrared controller designed to mount on the roof to directly control your household appliances. It will learn your appliances infrared remote command and repeat when matched with a home automation input device. Turn on or off your air conditioner and television; open your curtains, etc. The infrared LED's are clustered in a 360 degree formation and will operate devices up to 150m² in size. Unit is supplied with a mains power supply.

Specifications	LA-5597
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless IR Controller	LA-5597	\$99.95	\$89.95	\$79.95

WIRELESS IR SECURITY

Wireless Bell Box to suit LA-5592 Home Automation Main Controller

A wireless bell box designed to interface with the LA-5592 Home Automation Controller. Works as an audible and visual deterrent, the siren produces a wailing 94dB of output and a powerful strobe when alarm is activated.

It is supplied with 240VAC mains power adaptor.

Specifications	LA-5579
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz
Sound Output	94dB @ 1m
Strobe Flash Rate	1Hz



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Bell Box	LA-5579	\$139.00	\$124.95	\$110.95

Wireless Solar Doorway Beam to suit LA-5592 Home Automation Main Controller

Pair this with our Home Automation Controller (LA-5592) to add an entry warning system to doorways, garages, driveways or hallways. This device is coupled with an amorphous solar panel to keep the doorway beams 4.8V Ni-MH battery pack charged, no need to worry about swapping out batteries or connecting up mains wiring. It will detect an interruption to the beam at up to 6m away which will trigger a warning on the main home automation controller. An ideal way to keep your entryways monitored.

- 4 x 500mAh 4.8V Ni-MH battery back

Specifications	LA-5593
Doorway width detection	0-6m
Transmission frequency	433MHz
Dimensions	71(W) x 65(L) x 44(H)mm
Solar panel dimensions	175(W) x 15(D)mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Solar Doorbell	LA-5593	\$74.95	\$67.50	\$59.95

Wireless Reed Switch to suit LA-5592 Home Automation Main Controller

Use this wireless reed switch to trigger an alarm or siren. Used inconjunction with the Home Automation Main Controller LA-5592. Being wireless they are a breeze to install.

- A23 size battery required
- Measures 58(H) x 30(W) x 12(D)mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Reed Switch	LA-5158	\$39.95	\$35.90	\$31.90

WIRELESS LIGHTING CONTROL

Wireless PIR Solar Light Sensor to suit LA-5592 Home Automation Main Controller

Automated light triggering is a simple yet effective security feature for homes. This kit comes with an extremely bright LED attached to a wall or roof mountable PIR sensor. The PIR sensitivity can be adjusted across a range from day to night and the light mode can be switched between flashing mode, on for 20 seconds, on for 50 seconds, or off completely. An internal 6.0V Ni-MH battery pack can be recharged with the supplied amorphous solar panel.

This device can be paired with our Home Automation Controller (LA-5592) for even greater control.

- LED on/off indicator



Specifications	LA-5599
Detection range	6-7m
Transmission frequency	433MHz
Transmission distance	100m (line of sight)
Power supply	5 x 1.2AA rechargeable batter pack
Dimensions	237(H) x 150(D)mm
Solar panel dimensions	175(W) x 15(D)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Solar PIR	LA-5599	\$139.00	\$124.95	\$110.95

Wireless Light Sensor Module to suit LA-5592 Home Automation Main Controller

This light sensor module will interface with the Home Automation system to turn an output device on or off. It has an adjustable light setting to detect the desired ambient light trigger. You can interface this with a 240V mains controller to turn a light on at dusk or a 12V controller to open the curtains at the first sign of light.

Specifications	LA-5598
Wireless Range	100m line of sight
Wireless Frequency	433MHz



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Light Sensor	LA-5598	\$49.95	\$44.90	\$39.90

240VAC Mains Light Dimmer Module to suit LA-5592 Home Automation Main Controller

This compact 240VAC Mains Light Dimmer module remotely controls the intensity of your 240VAC lamps. It has 8 steps of light dimming, perfect for light mood setting when entertaining guests. Unit is only suitable for incandescent type bulbs.

- Note: A licensed electrician is highly recommended to hard wire this device into 240V mains wiring.

Specifications	LA-5596
Voltage input	240VAC
Maximum Load	5A @ 240V
Wireless Range	100m line of sight
Wireless Frequency	433MHz



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Dimmer	LA-5596	\$49.95	\$44.90	\$39.90

HOME AUTOMATION PREMIUM RANGE

This is a term where digital technology is used to simplify or integrate aspects of home management. Most home automation is designed to combine previously separate tasks into a central command & control workstation, typically a touch screen or even just a keypad. A PC can also form part of such a system.

Typical tasks that home automation can integrate are: interior & exterior lighting, air conditioning, audio & video feeds, telephone management, along with integration of home security including keyless entry, etc.

Previously home automation was limited to large expensive homes. Up until now home automation components were hard wired inside walls using Cat5-type cabling.

It is now possible to achieve the same thing without expensive & disruptive cabling using high security, high reliability wireless technology.

We are proud to be the pioneer of Home Automation-in-a-box technology.

Wireless Gateway - Home Automation Controller

- Have you ever dreamt of controlling your homes lighting and appliances remotely?
- Have you ever wanted to turn your homes lights and appliances off and activate your security system with the touch of one button?
- Have you ever been on holidays and wanted to check on your home via video and be updated via Email of any events?

SECURITY ALARM FUNCTION

- Real Time / Emergency Notifications Via Email
- Home Automation Control Timers, scene control, remote operation
- Video Surveillance IP cameras support for live video monitoring
- Cost Effective True wireless connectivity
- Easy Installation DIY simple installation.

SECURITY

Fully secure your home with the LA-5570 Wireless Gateway. Featuring a wide range of wireless accessories such as door and window switches, PIR motion detectors and smoke detectors. You can easily build up a fully secure home environment to protect your home, family and property. Use either the wireless digital pulse input or the analogue input modules to connect a range of hard wired security sensors.

REAL TIME EVENT / EMERGENCY NOTIFICATION

The LA-5570 Wireless Gateway provides real time email notification allowing you to be immediately informed of a break in or panic notification.

AUTOMATION

Your LA-5570 Wireless Gateway is more than a fancy security system. It offers total control of your home appliances, lighting and power outlets. The LA-5570 can control your entire home allowing you to monitor and control appliances remotely via your Smartphone or web browser.

WIRELESS LCD WITH PSU - LA-5572

The wireless remote keypad allows for complete configuration and programming the LA-5570 Wireless Gateway. Has the look and feel of a typical alarm keypad with the extra functionality of controlling your lighting appliances.

- Away Mode Full Arming for All Zones
- Stay Mode For Arming certain Zones for Night Mode
- Zone Bypass function
- Panic button Emergency Alarm Activation (Can send Email)
- Tamper switch Activates Alarm if removed from the wall when Armed
- Simple to use navigation menus
- Powered by 2x AA batteries and mains adaptor
- Simply mount on the wall with the supplied mounting plate
- Dimensions: 157(L) x 95(W) x 21.5(H)mm

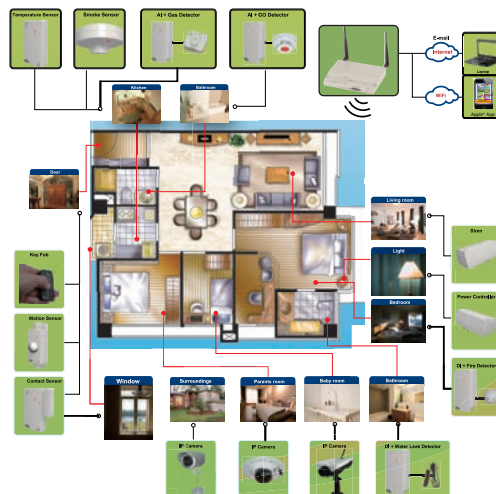
LA-5572



Control using your iPhone® or Android Smartphone



LA-5570



TYPICAL WIRELESS HOME AUTOMATION SYSTEM MAP

VIDEO SURVEILLANCE

Need to check on the dog? Make sure the teenagers are behaving while out to dinner? Through the Web user interface or you Smartphone you can easily monitor and control your IP cameras, allowing you to easily monitor live video footage of your home anywhere.

COST EFFECTIVE

Most professional home automation systems require your home to be pre wired costing many thousands of dollars just for the install! But with the LA-5570 Wireless Gateway, it can offer you the same level of functionality and its all DIY! The system uses premium wireless technologies such as Wi-Fi, Zigbee and 3GPP mobile technologies to provide a very cost effective DIY solution.

EASY INSTALL

The system uses premium wireless technologies such as Wi-Fi and 3GPP mobile technologies connecting all the devices such as the door sensors, PIR motion detectors, smoke detectors, temperature monitor, plug in appliance switch all remotely without wires. Providing a very cost effective, DIY solution.

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Gateway	LA-5570	\$299.00	\$269.00	\$239.00
Keypad Control	LA-5572	\$189.00	\$169.95	\$150.95

Professional Home Automation Package 2

We have teamed up our professional home automation controller with a range of suitable accessories to help take out the guess work and save you some money at the same time. The included Main Alarm Controller enables you to easily build up a fully secure home environment to protect your home, family and property. It offers total control of your home appliances, lighting and power outlets. The package includes a 240VAC plug in mains controller that is able to remotely activate any mains appliances. The module is designed to be hardwired to a 230VAC source, which then connect up to devices such as lighting, mains switches and appliances which can then be controlled wirelessly. The package also includes a wireless PIR sensor that detects infra-red radiation in 95 degree up to a distance of 5 metres. The LA-5576 siren is designed to receive signals from Home Automation sensors. It can interface with wireless PIR detectors, reed switches and smoke detectors. This package also has 4 x AA Batteries (SB-2425) for siren, 2 x AAA Batteries (SB-2426) for PIR and 1 x CR2032 (SB-2522) for Reed switch.

PACKAGE INCLUDES:

1 x Main Alarm Controller	LA-5570	1 x Siren	LA-5576
1 x 240V Mains Switch	LA-5578	4 x AA Batteries	SB-2425
1 x 240V Lighting Controller	LA-5575	2 x AAA Batteries	SB-2426
1 x PIR	LA-5582	1 x CR2032	SB-2522
1 x Reed Switch	LA-5584		



	Cat.	Qty 1+
Home Automation Package 2	LA-5568	\$599.00

HOME AUTOMATION ACCESSORIES (SUITS OUR PREMIUM RANGE ON PREVIOUS PAGE)

240VAC & 12VDC WIRELESS CONTROLLERS

Wireless Mains Controller

A 240VAC plug in mains controller that is able to remotely activate any mains appliances. Turn lights on and off, motors, heaters, etc wirelessly via the Gateway or remote control devices.

Specifications	LA-5578
Power Supply	230VAC 50Hz
Resistive Load	6.4A
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 52(W) x 39(D)mm

Product may vary from image



	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Wireless Controller	LA-5578	\$119.00	\$106.95	\$94.95

Wireless 12VDC Switch Controller

A 12VDC Controller switch suitable for use with Garage doors and door strikes. It can also be used for switching other devices with a 12VDC control input such as lamps, cameras, etc. It has a magnet on the rear which enables easy fixture to metal surfaces.

Specifications	LA-5580
Power Supply	12VDC
Current	20mA
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 39(W) x 15(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC Wireless Switch	LA-5580	\$54.95	\$49.45	\$43.90

Wireless Relay Switch to suit LA-5592 Home Automation Main Controller

Wireless relay switch which supports two D.I. (digital input) and two D.O. (digital output) interfaces. It supports bi-directional communication that allows you to receive or transmit signal with 3rd-party device by itself or interact with other UIS wireless devices.

- Features LED indicators for inputs and outputs, and screw terminals for easy wiring.
- Power supply included

Specifications	LA-5577
Voltage input	12VDC
Wireless range	100m line of sight
Wireless frequency	433MHz
Max loading	10A (12VDC) Note: Not mains rated
Dimensions	88(L) x 39(W) x 15(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Relay Switch	LA-5577	\$149.00	\$133.95	\$118.95

WIRELESS LIGHTING CONTROLLER

Wireless 240VAC Lighting Controller

Essentially a remote control relay that will allow control of up to two lights wirelessly. Plug it into a 230VAC source (or you can wire it in) then connect up to 2 lights and they can be remotely controlled.

- Not limited to lights, it could be used for switching any number of household devices.



Specifications	LA-5575
Voltage	240VAC
Communication range	100 Metres
Protocol	2.4GHz UIS
Dimensions	132(L) x 67(W) x 27(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Wireless Light Controller	LA-5575	\$69.95	\$62.95	\$55.95

WIRELESS SECURITY & FIRE CONTROL

Wireless PIR Sensor

Our new range of Home Automation products also integrates alarm monitoring functionality. This Wireless PIR sensor further expands the capabilities of our Home Automation range by offering reliable motion detection. Like all PIR detectors, this unit detect infra-red radiation in 95 degree up to a distance of 5 metres. Uses 2 x AA batteries and has energy saving mode.



Specifications	LA-5582
Power Supply	2 x AA (not included)
Detection	Passive Infra-red
Communication range	100 metres
Protocol	2.4GHz UIS
Dimensions	92(L) x 34(W) x 34(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless PIR	LA-5582	\$79.95	\$71.95	\$63.95

Wireless Magnetic Reed Switch

This compact wireless reed switch interfaces with our Home Automation system allowing entry protection from windows and doors. Supplied with a mounting bracket for the main wireless switch, the magnet screws onto door or window frames. Also has power saving mode which enables the battery to last up to 2 years.

Specifications	LA-5584
Power Supply	CR2032
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	65(L) x 34(W) x 15(D)mm Main 70(L) x 12(W) x 15(D)mm Magnet



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Reed Switch	LA-5584	\$64.95	\$58.50	\$51.95

Wireless Siren

A 240V AC plug in siren designed to receive signals from our range of Home Automation sensors. Unit can interface with wireless PIR detectors, reed switches and smoke detectors. Has a sound output of 85dB and also an LED visual indication on the front panel.

Specifications	LA-5576
Power Supply	240VAC 50Hz
Sound Output	90dB @ 1 metre
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 52(W) x 39(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Siren	LA-5576	\$99.95	\$89.95	\$79.95

Remote Control

Miniature and slim line 3 button key fob remote control for use with our range of Home Automation devices. Quickly arm and disarm sensors, turn on lights, open doors and also integrates a panic button for emergencies.

Buttons, arm, disarm and panic

Specifications	LA-5573
Power Supply	CR2032
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	64(L) x 30(W) x 13(D)mm

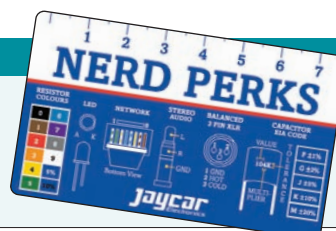


	Cat.	Qty 1+	Qty 2+	Qty 4+
Remote Control	LA-5573	\$59.95	\$53.95	\$47.90

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



COMPUTER ACCESSORIES

ADSL Modem	320
Card Readers	336
Converters & Adaptors	329
Hubs	335
Laptop & Power Supplies	340
Leads & Adaptors	327
Media	336
Mice & Keyboards	334
Monitor Brackets	332
Networking/Wireless Networking	317
Rack Cabinets & Accessories	342
Storage, Docking & HDD Cases	337
Splitters & Converters	330
Type-C Technology	324
Uninterruptible Power Supplies	341
Webcams	333

Background image sent to us by Adam who shops at our Jaycar Browns Plains store

"Positioned somewhere between the coding & electronic tinkering worlds is my 'messy' workspace."

WIRELESS NETWORKING EXTENDERS

N300 Nano Wi-Fi Extender

Eliminate Wi-Fi dead zones and extend the range of existing 802.11b/g/n networks with this extra compact device. Just plug the unit into an existing power point in your home and within seconds it will help detect available Wi-Fi networks and establish connection. A signal strength LED is featured to help you locate the best position for optimal Wi-Fi coverage and a WPS (Wi-Fi protected setup) button for quick and easy configuration of the SSID and security key. A free multifunction app is available that will aid setting up, enable parental control or use the device as a guest network.

- Slimline (doesn't take up 2 powerpoints)
- 3 operation modes: Range Extender, Access Point and Bridge
- 2.4GHz
- 300Mbps Network Speed
- 1 x 10/100Mbps Ethernet LAN port
- Wi-Fi strength LED indicator
- WPS button
- Dimensions: 65(H) x 42(W) x 38(D)mm



Easy Smartphone IQ setup



iPhone® not included



AC750 Wi-Fi Extender

Designed with dual-band speeds up to 433Mbps at 5GHz and 300Mbps at 2.4GHz frequency fully compliant with IEEE802.11a/b/g/n/ac standards. You can connect this device to any existing wireless modem or router and extend the wireless signal, allowing more users to enjoy high bandwidth wireless connection without cable burden and any interruption. It can support up to 433Mbps data rate which is 3 times faster. It features a WPS button for user to easily build connection to router or network device by simply pressing WPS button of both devices. It also has an LED signal indicator.

- 3 in 1 operation mode: Range Extender, Access Point and Bridge
- Support DHCP server to assign IP address automatically
- Provide 1 Ethernet port to support LAN configuration of AP/AP client
- Support 64/128-bit WEP, WPA, WPA2 and IEEE 802.1x wireless securities
- Support Wi-Fi Protected Setup (WPS 2.0) hardware button
- Support Web-based or smart phone configuration



Easy Smartphone IQ setup



iPhone® not included



Specifications	YN-8365
Main Chipset	Mediatek MT7620A + MT7610E
Ethernet Port	10/100M UTP Port x 1 (Auto MDI/MDI-X) for LAN
Frequency Band	2.4GHz, 5GHz
Data Rate	2.4GHz: 300Mbps, 5GHz: 433Mbps
Antenna	Internal Antenna x 3 (2.4G x2 2T2R, 5G x1 1T1R)
Dimensions	91(H) x 59(W) x 40(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN-8369	\$69.95	\$62.95	\$55.95

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC750	YN-8365	\$99.95	\$89.95	\$79.95

802.11N WIRELESS NETWORKING

N150 Nano USB 2.0 Wireless Network Adaptor

They don't get much smaller than this. Excluding the USB plug, this wireless-N network adaptor measures in at an astounding 5mm wide. It's the ultimate in discrete networking and perfect for the PC, laptop, or netbook.

- USB 2.0
- Compatible with 802.11n/g/b networks
- Transfer rate up to 150Mbps
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 15(L) x 5(W) x 17(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
N150	YN-8309	\$19.95	\$17.70	\$15.70

N300 Mini USB 2.0 Wireless Network Adaptor

Add 802.11n wireless capability to your computer. Supports transfer speeds up to 300Mbps and is part of the 802.11n standard. A secure, sleek and convenient networking upgrade for the home or office.

- Security: 64/128bit WEP encryption
- WPA/WPA2 and WPA-PSK/WPA2-PSK encryption
- Wi-Fi Protected Setup (WPS)
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 58(L) x 26(W) x 9(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN-8307	\$24.95	\$22.35	\$19.70

AC450 5GHz Nano Wireless Network Adaptor

A new generation Wi-Fi USB wireless adaptor to upgrade your existing laptop or desktop to take advantage of interference free 5GHz networks. Despite the size, this nano USB adaptor supports a higher data rate of up to 433Mbps when connecting with wireless 802.11ac devices. Ideal for bandwidth-intensive tasks like online gaming, video streaming etc.



Specifications	YN-8311
USB	2.0
Frequency	5GHz
Data Rate	433Mbps
Wireless standard	802.11ac, 802.11a, 802.11n
Security	WEP64/128-bit, WPA, WPA2, 802.11x
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.6+, Linux
Dimensions	18(D) x 14(W) x 7(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC450	YN-8311	\$34.95	\$31.45	\$27.90

TECH TALK!

WHAT DOES N150, N300, AC450, AC600 & AC750 MEAN?

	N150	N300	AC450	AC600	AC750
Wi-Fi Standards	802.11b/g/n	802.11b/g/n	802.11a/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Wi-Fi Speed (Mbps)	Up to 150	Up to 300	Up to 433	Up to 150 + 433	Up to 300 + 433
Frequency (GHz)	2.4	2.4	5	2.4 & 5 (Dual band)	2.4 & 5 (Dual band)

TECH TALK!

SUPERCHARGE YOUR WI-FI WITH 802.11AC!

- More speed: Up to 6 times faster, to stream multiple high quality videos simultaneously
- More capacity: Up to 3 times the capacity, so that your Wi-Fi can handle more users, more devices, more high quality video streaming and larger downloads
- More coverage: Better speeds and reliability, at greater distances from your Wi-Fi access point so you can stay connected in more places
- More battery life: Transfers data faster, so your devices use less power and last longer between charges

AC600 Dual Band Wireless Network Adaptor

Next generation extremely small USB 2.0 wireless network adaptor employing the new 802.11ac Wi-Fi standard which boasts higher speed of its predecessor. This adaptor features dual-band connectivity for maximum compatibility and performance in whatever network environment you're connected to. Connect to either a 2.4GHz network for basic internet applications or a 5GHz interference free network for HD streaming and gaming. The unit also features a Wi-Fi protected setup (WPS) button which allows you to set up and activate a secure wireless connection in a few seconds (Note: your wireless router will require a WPS button as well).



- 802.11ac 600
- 5GHz max speed - 433Mbps
- 2.4GHz max speed - 150Mbps
- Security: WEP 64/128-bit, WPA, WPA2
- Fully backward compatible with 802.11a/b/g/n standards
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.4+, Linux
- Dimensions: 40(H) x 16(W) x 6(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN-8328	\$39.95	\$35.90	\$31.90

AC600 Long Range Network Adaptor

It seems only yesterday we were awed by the speed of 802.11n Wi-Fi. Now 802.11ac is here we can expect speeds up to 3 times faster than the previous standard. This tiny USB adaptor will give speeds up to 433Mbps with increased range. It's dual band so can switch between 2.4GHz (for 150Mbps) or 5GHz band (for 433Mbps). A 3dBi detachable dual band antenna is supplied to further improve performance of your Wi-Fi connection.



- Detachable 3dBi antenna
- Features Wi-Fi protected setup
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.4+, Linux
- Dimensions: 50(L) x 16(W) x 12(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN-8313	\$44.95	\$40.45	\$35.90

Nano Wi-Fi & Bluetooth® Adaptor

The 802.11n Nano Wireless USB 2.0 & Bluetooth® Combo Adaptor simultaneously provides Bluetooth and Wi-Fi connections, allowing you to concurrently link to Wi-Fi Internet and Bluetooth® devices.

Wi-Fi Spec

- Complies with IEEE 802.11b/g/n standards
- Transfer rate: up to 300Mbps
- 64/128bit WEP encryption
- WPA/WPA2 and WPA-PSK/WPA2-PSK encryption
- Wi-Fi Protected Setup (WPS)



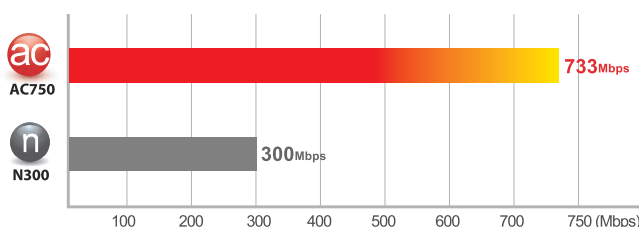
Bluetooth Specs

- Bluetooth® V4.0 Class 2
- Compatible with Bluetooth® v2.1 and v3.0
- Transfer rate: 3Mbps
- Supports BLE
- Bluetooth® v3.0 + HS compliant
- Supports Secure Simple Pairing
- Dimensions: 7.1(H) x 14.9(W) x 18.5(D)mm
- Compatibility: Windows 10, 8.1, 8, 7, Vista, Mac OS® 9.0-10.8, Linux



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wi-Fi & Bluetooth®	YN-8335	\$44.95	\$40.45	\$35.90

Maximum Speed: Next Generation 802.11ac vs. 802.11n



802.11N WIRELESS NETWORKING (CONTINUED)

Outdoor Wireless Network Adaptor

A uniquely designed USB network adaptor that has incorporated the network interface into the sizeable 9dBi dipole antenna. This design offers no signal loss and allows mounting of the waterproof antenna externally with the supplied bracket. There is a 5m USB lead attached to the antenna for connection to a laptop or desktop. An ideal solution for accessing Wi-Fi from caravans, boats, farms or rural areas where there is limited coverage.

- Bracket and screws included for mounting
- USB 2.0 and 1.1 compliant

Specifications	YN-8348
Wireless standard	802.11b/g/n
IP Rating	IPX5
Data Rate	150Mbps
Security	WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, TKIP/AES
Chipset	RALINK RT3070
Antenna	Fixed 9dBi dipole antenna
Range	Up to 1000m (line of sight)
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® X 10.6+
Dimensions	460(L) x 27(W)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8348	\$54.95	\$49.45	\$43.90

WI-FI BRIDGE

N600 Dual Band Wi-Fi Bridge with Audio Streaming

A curiously shaped, classy solution for home entertainment. It is an ideal choice to upgrade your existing, slow and out-dated 54Mbps 11b/g devices to super-fast 300Mbps. The device comes with 2 LAN ports to provide Wi-Fi connectivity for two devices simultaneously and you can power from a spare USB port on your computer or via the supplied mains adaptor. Connect to the device through Wi-Fi with your Tablet, computer or Smartphone by using the built-in Wi-Fi Protected Setup (WPS) button and stream your favourite music to your audio system via the 3.5mm audio jack. Supplied with RJ45 Ethernet Cable, mains adaptor, Access Key card and user manual CD.

- Upgrade to 5GHz for HD video streaming
- Hardwired
- Wireless streaming to your audio system
- Smart iQ Setup
- Status LED indicators
- Internal high power antenna
- WPS/Reset button



Easy Smartphone iQ setup
iPhone® not included



Specifications	YN-8368
Frequency Band	2.4GHz or 5GHz
Wireless Standards & Data Rates	IEEE 802.11a/b/g/n (up to 300Mbps)
Audio sample rate and resolution	DAC Signal-to-Noise Ratio (SNR) up to 100dB
Hardware Interface	2 x RJ-45 LAN ports (1 x Gigabit)
Security	64/128-bit WEP encryption and WPA-PSK, WPA2-PSK security, Wi-Fi Protected Setup (WPS)
System Requirements	Device with web browser for software configuration: Microsoft®, Internet Explorer®8.0, Google Chrome®, Firefox® or Safari®, iOS, Android® latest version and speaker with 3.5mm audio jack for music streaming
Antenna	2 x internal high - power 5dBi gain antenna
Power	5V DC 1.2A switching power adaptor
Dimensions	100(D) x 97(W) x 95(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
N600 Dual Band	YN-8368	\$89.95	\$80.95	\$71.95

TECH TALK!

WIRELESS HIGHSPEED NETWORKING

Upgrade your wireless network to the latest high speed wireless technology & increase data throughput at the same time. These impressive devices use MIMO technology to significantly improve transmission range & minimise transmission errors. They are backward compatible to 802.11b & 802.11g systems & support Windows (98SE, ME, 200, XP, Vista, 7), Linux & Mac® systems.

- 802.11n, 802.11g, 802.11b, 802.11 protocols
- Data transfer rate up to 433Mbps
- Supports infrastructure and ad-hoc modes
- WPA/WPA2 - PSK

BLUETOOTH® DONGLES

USB2.0 Bluetooth® V4.0 Class 2 Dongle

Connect a wide variety of popular Bluetooth® devices to your PC, including modern Bluetooth® Low Energy devices.

- Bluetooth® V4.0 Class 2 (also Bluetooth® 2.1 + EDR)
- Transfer rate: 3Mbps
- Supports BLE
- RoHS compliant
- Plug n' Play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000



Bluetooth® Transmitter & Receiver see page 399

	Cat.	Qty 1+	Qty 4+	Qty 10+
Class 2	XC-4956	\$24.95	\$22.45	\$19.95

NETWORK 802.11N CARD

1Gbps PCI-E Network Card

Upgrade your PC with this 1Gbps PCI-Express Network card. Features auto-negotiation so it will work flawlessly with 10/100Mbps or 10/100/1000Mbps networks. Automatic full duplex capability eliminates packet collisions by allowing data to flow in both directions simultaneously. Comes with a standard ATX bracket as well as a mini-ATX bracket for home theatre PCs or small servers.

- Compatible with 10/100/1000Mbps speed networks
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Linux
- Dimensions: 65(L) x 66(W)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8073	\$24.95	\$22.45	\$19.95

802.11n PCI-E Wireless Network Card

For PC motherboards lacking in wifi this is a simple upgrade. Just slot it in a spare PCI-E port for up to 300Mbps wireless connectivity. The card itself is tiny with dual antennas for the best possible reception and transfer rates.

- Plug and play
- Complies with wireless 802.11b/g/n standards
- Wireless security: WEP 64/128, WPA, WPA2
- Compatibility: Windows 8.1, 8, 7, Vista, XP
- Dimensions: 65(L) x 43(W)mm (without antenna)



	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8326	\$39.95	\$35.90	\$31.90

TECH TALK!

WHICH PROTOCOL IS RIGHT FOR YOU?

	Protocol	Max Speed (Mbps)	Web Surfing	Email	Streaming Music	File Storage & Sharing	VoIP	Online Gaming	Streaming Video (HD)
FAST	802.11n	150	✓	✓			✓		
FASTER	802.11n	300	✓	✓	✓	✓	✓		
FASTEST	802.11ac	733	✓	✓	✓	✓	✓	✓	✓
					2.4GHz			5GHz	

WI-FI STANDARDS						
Wi-Fi Standard Type	Protocol	Frequency (GHz)	Throughput (Typ-Mbps)	Data Rate (Max-Mbps)	Typical Range Indoors(m)	Typical Range Outdoors(m)
A	802.11a	5.15-5.875	23	54	30	100
B	802.11b	2.4-2.5	4	11	30	100
G	802.11g	2.4-2.5	19	54	35	110
G+	802.11g+	2.4-2.5	35	125	35	110
MIMO	802.11g	2.4-2.5	50	125	50	130
N	802.11n	2.4	74	300	70	160
N	802.11n	2.4/5 Dual Band	74	300	70	160
AC	802.11ac	5	220	433	30	60
AC	802.11ac	2.4/5 Dual Band	74 + 220	300 + 433	30	60

802.11AC HIGH SPEED WIRELESS NETWORKING

Wireless Broadband Routers - 802.11n

Combines three essential networking tools into one. This intelligent router can operate as a Wi-Fi range extender, a Wi-Fi access point or a wired/wireless router. It fully supports the 802.11b/g/n standards and provides excellent wireless coverage with the 2 x high gain 3dBi antennas. A guest network mode can be enabled when using the router option which lets users access the internet but blocks them from your primary secured network. With WISP support you can share an internet connection from a wireless ISP access point and convert it to a wired or wireless network for multiple users in your home or office. Also features Wi-Fi Protected Setup (WPS) button to setup a secure connection in one click. If you're device doesn't support WPS there's a simple iQ setup that can be completed in minutes by your Smartphone when connected to the Wi-Fi connection.

- 1 x RJ-45 Fast Ethernet WAN port
- 4 x RJ-45 Fast Ethernet LAN ports
- WEP, WPA & WPA2 encryption
- WAN protocol: PPPoE, static IP, dynamic IP, PPTP and L2TP
- Dimensions: 135(W) x 110(D) x 28(H)mm

Two models available:
Wireless N150 Router - YN-8325
Wireless N300 Router - YN-8327



Easy Smartphone IQ setup

iPhone® not included



NBN Ready



	Cat.	Qty 1+	Qty 4+	Qty 10+
N150	YN-8325	\$44.95	\$40.45	\$35.90
N300	YN-8327	\$64.95	\$58.50	\$51.95

Wireless ADSL2+ Modem Routers

A high performance router that provides full ADSL2+ capability and superb reliability as a cost-effective networking solution for the home. These models allow up to 4 wireless SSIDs which would let you create wireless nodes with varying permission levels such as a guest network that has limited access. WPS setup is standard giving extremely quick setup for your Tablets or Smartphones. A broad set of customisable security features are at your disposal including a firewall and QoS to maintain reliable traffic flow through the network as well as MAC address filtering and much more. 4 x 10/100Mbps RJ-45 ports are featured and a USB socket (only on 300Mbps model YN-8342) for attaching a USB HDD or flash drive so files can be shared over the network with extreme ease. The intuitive user management interface provides a myriad of options to have your router humming to your needs.

Two models available
Wireless N150 ADSL2+ - YN-8340
Wireless N300 ADSL2+ with USB Sharing - YN-8342

General Features:

- Complies with ADSL2/2+ standards with downstream and upstream data rates up to 24Mbps and 1Mbps
- Wi-Fi 802.11b/g/n compatible
- 4 x 10/100Mbps RJ-45 Ethernet ports
- Features WEP & WPA2 encryption and a hardware WPS button
- Supports UPnP, IP/MAC filtering, DMZ and virtual server

Wireless Features:

- 802.11b/g/n compatibility
- Wireless security: 64-bit, 128-bit, WEP, AES, TKIP, WPA, WPA2
- Wireless Protected Setup

Security Features:

- Firewall
- MAC address filtering
- QoS
- Anti-DoS
- Anti-port scanning
- URL filtering

Network features:

- ADSL2+ Standard: Annex A/M
- DHCP server and DHCP relay
- Bridge uplink
- VLAN at WAN end
- NAT and NAPT
- VLAN and port binding

Included accessories:

- RJ-45 Cable
- ADSL Splitter
- RJ-11 cable
- Power supply
- Spare antenna

Configuration Management:

- Web based interface
- Telnet and SSH
- Two tiered user management including admin & diagnostics user

System Specifications:

- Chipset: BCM6318+BCM43217+BCM6301
- DDR SDRAM: 32MB DDR
- Serial Flash: 4MB / 8MB

Note: YN-8340 is not available in New Zealand



YN-8340



YN-8342

	Cat.	Qty 1+	Qty 4+	Qty 10+
N150	YN-8340	\$69.95	\$62.95	\$55.95
N300 with USB Sharing	YN-8342	\$109.00	\$97.95	\$86.95

TECH TALK!

WHAT 802.11AC MEANS TO YOU

802.11ac is a hot new wireless technology that boasts faster and at longer ranges than 802.11n. Also widely known as '5G Wi-Fi' or 'Gigabit Wi-Fi', it defines a faster and more reliable technology over 802.11n. It continues the use of MIMO (Multiple-Input Multiple-Output) and OFDM (Orthogonal Frequency Division Multiplexing), and boosts several

key changes including improving data rate in excess of 3 Gbps depending on modulation, channel bandwidth, and MIMO configuration. The primary changes are 80 and 160MHz wide channels in addition to the usual 40MHz channel. As the bandwidth increases, so do the number of OFDM subcarriers to a maximum of 512 at 160MHz

RELATED PRODUCTS

FROM

\$3.25

YN-8200



NETWORK LEADS

P323

FROM

\$9.95

MS-4040



POWER BOARDS

P275

FROM

\$14.95

WH-5654



BRAIDED LOOM

P205

FROM

\$59.95

CW-2831



MONITOR BRACKET

P332

802.11N HIGH SPEED WIRELESS NETWORKING (CONTINUED)

Wireless AC750 Dual Band Router

Take advantage of the latest in wireless technology with this 3-in-1 802.11ac router which boasts Wi-Fi speeds of up to 733Mbps. This allows you to stream HD movies over Wi-Fi, transfer large files quicker using the 5GHz band or the option of 2.4GHz for general internet browsing. It can function as a router, access point or a Wi-Fi range extender and these modes can be switched over with one click. Features WPS for quick Wi-Fi connection on Smartphones, Tablets and laptops as well as Smart IQ setup which will get you up and running without needing to cycle through a myriad of technical settings. Multiple SSIDs can be operated (up to 4) enabling wireless hotspots with different access permissions, eg guest and admin. There is one RJ-45 10/100 WAN port for sharing the internet from a modem and 4 x 10/100 ports for wired devices on the network.

Specifications:

- 1 x 10/100Mbps RJ-45 WAN port
- 4 x 10/100Mbps RJ-45 LAN ports
- Dimensions: 190(L) x 141(W) x 42(H)mm

Security Features:

- 64/128-bit WEP encryption, WPA and WPA2 security
- QoS for critical operations
- SPI anti-DoS firewall

Wireless Features:

- 802.11ac/b/g/n compatible
- Speeds up to 433Mbps on 5GHz band
- Speeds up to 300Mbps in 2.4GHz band
- Multiple SSIDs enables users to configure up to four separate SSIDs
- 2 x 2.4GHz 5dBi antennas and 1 x 5GHz 5dBi antenna

Network features:

- IGMP proxy and IGMP snooping
- DDNS and DHCP
- Port triggering
- Virtual server and DMZ hosting
- MAC/IP filter and URL blocking
- QoS for smart bandwidth management
- Static routing
- UPnP architecture
- VPN pass-through (IPSec/PPTP)

Included accessories:

- 5VDC power supply
- 1 x Cat 5 cable

Configuration management:

- Supports remote management
- System status and security log
- Firmware upgradeable
- Smart IQ Setup, no CD required
- Supports Smartphone, Tablet or laptop setup



Dual-Band



NBN Ready



Easy Smartphone IQ setup

iPhone® not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
AC750 Dual Band	YN-8329	\$119.00	\$106.95	\$94.95

ETHERNET SWITCHES

8 Port N-Way Ethernet Switch

These units can be mains powered or directly from a USB port with the supplied USB Male to 2.1mm 5VDC adaptor making them great for small LANs and office desktops. Supports auto-negotiation so they will automatically detect whether connected devices are running at 10Mbps/100Mbps or 1000Mbps (for the gigabit model). They also feature cable length detection so devices which support this feature will have their cable length detected and power usage to that port will be adjusted accordingly. If a link is inactive the power will be dynamically adjusted to reduce power usage.

- Power: 5VDC
- Features 8 x RJ-45 ports
- Includes power supply & USB adaptor
- 137(L) x 76(W) x 25.5(H)mm



YN-8077

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mbps	YN-8077	\$29.95	\$26.95	\$23.95
10/100/1000Mbps	YN-8078	\$64.95	\$58.50	\$51.95

NETWORKING SERVERS

Ultrabook / Macbook Air® Network Adaptor with 3 Port Hub

For ultrabooks, Macbook Air® and Tablets where USB ports are sparse or RJ-45 network ports are non-existent. Simply connect a network cable to this device and you have a 10/100Mbps network adaptor. It also serves as a 3 port hub to connect peripherals such as a mouse, webcam, and keyboard.

- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 96(L) x 24(W) x 16(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	YN-8407	\$24.95	\$22.35	\$19.70

USB 3.0 Gigabit Ethernet Converter with Type-C Adaptor

Modern Apple® MacBooks® and Ultrabooks™ aren't able to connect to the internet using a LAN cable, as there is no LAN port provided. This converter provides a solution by converting a USB port to a ethernet port. With the combination of USB 3.0 and Gigabit ethernet, it maximizes the data transfer speed. A USB 3.0 Type-C adaptor is included so you can switch between Type-C and Type-A depending on the socket of your MacBook® or Ultrabook™.



Specifications	YN-8412
Interface	USB 3.0 Type-A, USB 3.0 Type-C Adaptor
Network Connection	RJ45, 10/100/1000Mbps
Network Support	IPv4 / IPv6
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+, Linux
Dimensions	70(L) x 30(W) x 15(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Type C	YN-8412	\$54.95	\$49.45	\$43.90

NETWORKING ANTENNAS

2.4GHz Wireless Networking Antennas

Want to get a longer range in your wireless network? Here's a quick and inexpensive way to improve the range at either your base station or terminal. These antennas are specifically designed for 2.4GHz applications and 802.11 wireless networking is an ideal application. This rubber antenna is a dipole design and features a detachable base. Supplied with a 1.5 metre lead terminated to a reverse SMA connector. Both models supplied with a detachable magnetic base. See our adaptors section for conversions if needed.

Specifications	Both Models
Frequency Range	2.4GHz
Impedance	50 ohm
Polarisation	Vertical

AR-3273



AR-3277



↑	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	5dBi	195mm	AR-3273	\$19.95	\$17.95	\$15.95
	11dBi	380mm	AR-3277	\$39.95	\$35.90	\$31.90

5/5.8GHz Wireless Networking Antennas

Improve your wireless signal of your existing wireless AC (802.11ac) modem/router by attaching these 5GHz networking antennas. Supplied with a 1.5m lead terminated to a reverse SMA connector and a detachable magnetic base.

Specifications	AR-3286	AR-3288
Gain	5dBi	9dBi
Directionality	Omni directional	Omni directional
Frequency Range	5.5 - 5.85GHz	5.5 - 5.85GHz
Dimensions	220mm long	390mm long



AR-3286

AR-3288



↑	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	5dBi	220mm	AR-3286	\$24.95	\$22.50	\$19.95
	9dBi	390mm	AR-3288	\$39.95	\$35.90	\$31.90

See page 306 for 3G/4G Antennas

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

COMPUTER & MULTIMEDIA

ETHERNET OVER POWER & POWER OVER ETHERNET

ETHERNET OVER MAINS POWER

Power Line Ethernet Adaptor Kit - 500Mbps

Sometimes the only effective way to share Internet throughout your home or office is through the use of Cat5 cables. Depending on the distance of the run, locations and the number of machines you need to connect, a seemingly simple setup can soon become complex, unsightly and a potential safety hazard. Not anymore. Plug this PLC adaptor into your AC power socket and connect it your modem by a Cat5 cable. To establish a connection on the other end do the same, instead connecting the adaptor to a client device such as your computer.

For safety the adaptor includes an overload protector (rated to 20A) and a safety shutter. It's energy efficient, consuming less than 5W under full load and under 1W on standby.

A great way to extend the Internet to the workshop, bungalow, granny flat, etc, providing they are on the same electrical circuit (The same electrical phase).

- Supported protocols:
 - LAN: 10/100 Base-TX, IEEE 802.3z
 - PLC: HomePlugAV 1.1, IEEE 1901
- Data transfer rate:
 - PHY rate: up to 500Mbps
 - TCP rate: up to 95Mbps
 - UDP rate: up to 95Mbps
- Frequency band: 2 - 28MHz, 30 - 68MHz
- Security encryption: 128-bit AES with key management
- Ethernet port: 1-port 10/100 Ethernet
- Group/reset button: yes
- LED: power, Ethernet, PLC link
- Operating relative humidity: 10 - 85% non-condensing
- Power supply: 100 - 240VAC, 50/60Hz
- Power consumption:
 - Full load: < 2.4W
 - Standby mode: < 0.5W
- PLC modulation: OFDM (QAM 8/16/64/256/1024, 4096 QPSK, BPSK, ROBO)
- QoS (Quality of Service): Yes
- Max IGMP based IP TV streams: up to 16
- Transmission distance: AC wiring: up to 300m
- Max supported devices in a network group (active/total): 8/16
- Dimension: 67(L) x 56(W) x 31(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
500Mbps	YN-8352	\$129.00	\$115.95	\$102.95



AV500 Nano Power Line Wireless Extender Kit

Extend your Internet connection around the house and eliminate Internet dead spots without messy wiring. This Power Line Wireless Extender comes as a kit along with a mini power adaptor which uses existing electrical wiring of your house to extend the Internet connection and provides a wireless hotspot at the receiving end. Easy to setup and doesn't require any additional cables or software.

Simply plug the wireless extender into a power outlet that powers the broadband router and then plug the adaptor into another power outlet up to 300m away, and connect it to a computer's Ethernet port to establish network connection.

A great way to extend the Internet to the workshop, bungalow, granny flat, etc, providing they are on the same electrical circuit (The same electrical phase). See website for full specifications.

- AV500Mbps
- N300 Wireless
- Range up to 300m via electrical wiring/same circuit
- Plug-n-play setup
- Wi-Fi Protected Setup (WPS) button for quick and secure wireless connection
- Energy saving feature



Specifications	YN-8356
Effective Data Range	
TCP	Up to 95Mbps effective throughput
UDP	Up to 95Mbps effective throughput
Power line	500Mbps
Standards	
IEEE 802.11b/g/n, IEEE 1901, IEEE 802.3/IEEE 802.3u	
Security	
Support 64/128-bit WEP, 802.1x, WPA, and WPA2 for wireless security	
Multiple BSSID support	
Dimensions	82(L) x 53(W) x 41(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
AV 500Mbps	YN-8356	\$179.00	\$160.95	\$142.95

POWER OVER ETHERNET (PoE)

Power-Over-Ethernet (PoE) Passive Kit

PoE (Power Over Ethernet) is a technology that allows transfer of electrical power, along with data, over twisted pair cables. Finding a power supply is a common obstacle in LAN installations: PoE allows you to power wireless access points or other equipment via a Cat 5 cable without the need to have a separate power source available.

- You simply connect a plugpack of the required voltage via the 2.1mm DC connector, then tap it where you need it at the other end.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8410	\$19.95	\$17.70	\$15.70

Power-Over-Ethernet (PoE) Switch - 5 Port

This 5 Port Power-over-Ethernet (PoE) switch can provide power to up to 4 devices on your network, such as IP cameras or Network equipment. It has 4 x PoE power supply ports and one Uplink port with data and power transmission distance up to 100m.



Specifications	YN-8071
Ports	4 x PoE, 1 x Uplink. Power Output: 55W (up to 30W per port)
Peak throughput	10/100Mbps. Standard: 802.3af, 802.3at
Transmission distance	100m
Power supply	55V, 1.25A (included)
Dimensions	160(L) x 92(W) x 28(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mbps	YN-8071	\$119.00	\$106.95	\$94.95

Gigabit Power-Over-Ethernet (PoE) Injector - 30W

This Gigabit PoE injector allows you to use Power over Ethernet (PoE) devices such as IP Cameras, IP Phones, wireless access points and other networking equipment while being connected to a standard network switch or modem/router. Features remote power feeding up to 100m and very easy to install.



Specifications	YN-8047
Input Voltage	100-240VAC
Output Voltage	53V
Current Output	550mA
Power Consumption	30W
Network Speed	10/100/1000Mbps
PoE Standards	IEEE 802.3af, IEEE 802.3at
Dimensions	155(L) x 58(W) x 36(D)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
1000Mbps	YN-8047	\$69.95	\$62.95	\$55.95

CAT5 SPLITTER

Cat5 UTP Splitter

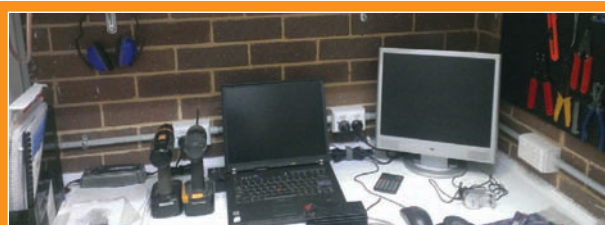
Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet.

Please note: you can't use this device to run two computers from one network port: you'll need a network switch for that. This product is unsuitable for gigabit networks.



ACMA Approved

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YT-6090	\$16.95	\$14.95	\$13.35



Workbench sent to us by: Ben Jaycar Store: Roxburgh Park

This is my new electronics room built for the express purpose of keeping my sensitive electronics circuits and electronics gear away from my wood/metal work area. I must say it didn't come up too bad!

For more details, visit: www.jaycar.com.au/workbench

CAT5/6 CABLES

Cat5e Patch Leads

- RJ45 to RJ45.
- 350MHz stranded cable.



ACMA
Approved

For full range of Wallplates and
Keystones see page 219



↑	Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	Blue	0.5m	YN-8200	\$3.25	\$2.90	\$2.60
	Blue	1.0m	YN-8201	\$3.95	\$3.45	\$3.15
	Red	1.0m	YN-8211	\$3.95	\$3.45	\$3.15
	Yellow	1.0m	YN-8221	\$3.95	\$3.45	\$3.15
	Green	1.0m	YN-8231	\$3.95	\$3.45	\$3.15
	Blue	2.0m	YN-8202	\$5.25	\$4.60	\$4.15
	Red	2.0m	YN-8212	\$5.25	\$4.60	\$4.15
	Yellow	2.0m	YN-8222	\$5.25	\$4.60	\$4.15
	Green	2.0m	YN-8232	\$5.25	\$4.60	\$4.15
	Blue	3.0m	YN-8203	\$6.95	\$6.25	\$5.50
	Blue	5.0m	YN-8204	\$8.95	\$7.95	\$6.95
	Blue	10.0m	YN-8205	\$14.95	\$13.35	\$11.70
	Blue	15.0m	YN-8206	\$21.95	\$19.70	\$17.35
	Blue	20.0m	YN-8207	\$24.95	\$22.35	\$19.70
	Blue	30.0m	YN-8208	\$37.95	\$33.95	\$30.45

Crossover Cables

Crossover cable eliminates the need for a hub when connecting two computers.

↑	Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	Black	2.0m	YN-8272	\$6.50	\$5.75	\$4.95
	Black	5.0m	YN-8274	\$10.95	\$9.85	\$8.75
	Black	10.0m	YN-8275	\$16.95	\$15.25	\$13.55

Cat 6a Patch Cables

Upgrade your home or office network to speeds up to 10Gbps. Will drastically reduce bottlenecks in file transfers, improve daily redundancy routines on networked drives, and lower crosstalk which is more prevalent in business environments.



ACMA
Approved

- Blue sheathed
- All models are ACMA approved



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	YN-8292	\$3.95	\$3.45	\$3.15
1m	YN-8293	\$4.95	\$4.45	\$4.00
2m	YN-8294	\$7.95	\$7.15	\$6.35
3m	YN-8295	\$9.95	\$8.75	\$7.75
5m	YN-8296	\$14.95	\$13.45	\$11.95
10m	YN-8297	\$24.95	\$22.45	\$19.95
20m	YN-8298	\$34.95	\$31.45	\$27.95
30m	YN-8299	\$44.95	\$40.45	\$35.90

NETWORK & CABLE TESTERS

2 in 1 Network Cable Tester & Digital Multimeter

This innovative device is ideal for network installers or technicians and will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, and continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, open-circuits, short-circuits, and cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator, and multimeter leads.

- LAN Tester Specifications:
- LAN tester checks faults
 - Mis-wired conductors
 - Manual or automatic testing

- DMM Specifications:
- 600 volt max input
 - 20M ohm resistance
 - Diode test
 - Data hold
 - Max hold
 - 200mA AC/DC
 - 3.5 digit

Full specifications on page 20



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5078	\$84.95	\$76.45	\$67.95

Mini Network Cable Tester with PoE Finder

Tests UTP/STP/Coaxial/Modular network cables by manually or automatically detecting missing or disordered wiring, and open or short circuits. It can quickly read the correct pin configuration of 10Base-T cable, 10Base-2 cable, RJ45/RJ11 modular cables, 258A, TIA-568A/568B and Token Ring cable etc. by comparing one transmitting end to the corresponding receiving end.

Supplied in a plastic case and with a PoE (Power-over-Ethernet) Finder that indicates if the network port or cable has power.

Package Contents:

- 1 x Main Tester Unit with Terminator
- 1 x PoE Finder
- 2 x BNC Adaptor Cables
- 1 x BNC Male/Male Adaptor
- 3 x RJ45 to RJ11 Adaptors



Specifications:

- 9V battery required (use cat. SB-2423)
- Dimensions:
Main unit: 80(L) x 55(W) x 22(D)mm
Remote terminator: 80(L) x 25(W) x 23(D)mm
PoE finder: 80(L) x 25(W) x 23(D)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5084	\$39.95	\$35.90	\$31.90

4P/6P/8P/10P Modular Crimp Tool with Network/PoE Tester

A unique combination of a crimper tool and a cable tester in one unit. Designed for a wide range of telecom and network, security, and residential structured wiring, and professional applications.

After crimping a modular connector, it enables you to quickly and easily test Ethernet twisted pair cable located on the handle of the tool for wiring continuity, opens, shorts, and mis-wires. With a single press on the TEST button, it will test the cable and gives the result of pin to pin configuration of the cables. The tester can also clip out of the housing and can be used as a general network tester.

The tool is steel framed with PVC handles and rust resistant black oxide finish. The device also includes a PoE (Power-over-Ethernet) finder to check if a voltage is present on a port or cable you are testing. Supplied with a carry pouch that can directly worn on your belt.

- Testing for both UTP and STP cable
- Testing cable for continuity, opens, shorts, mis-wires
- Pin to pin indication
- Single and multi-wired cable crimping
- Integrated cable stripper and cutter
- Crimping tool and cable tester in one
- Detachable cable tester

Specifications	TH-1939
Tester unit	
Display method	LED
Battery low	LED flash indicator
Power supply	4.5VDC (Includes 3 x LR-44 (SB-2950) type batteries)
Crimper unit	
Suitable for	10P, 8P, 6P, 4P
Dimensions	195(L) x 65(W) x 23(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1939	\$69.95	\$62.95	\$55.95

Network Cable Tracer

This tone generator is a highly practical network installation and troubleshooting tool which features a single/multi tone signal, test leads and a 4 conductor modular cable. The signal emitted by the tone generator can be easily traced by the companion probe, even when cables are in a bundle or hidden in punch down blocks or wall plates. The generator can also be used for checking telephone line polarity and status ie. Ring/Busy/Idle. The probe is equipped with an insulated inductive pick up and will amplify the tone signal to an audible level. A LED is also included as a visual indicator. The probe has a volume control and either indicator can be switched off if desired.

- The tone generator measures 115(L) x 60(W) x 30(D)mm
- The signal leads are 185mm long & terminated with alligator clips
- The modular lead is 250mm long & terminated a 4 pin RJ12 plug
- The probe is 205mm long and approximately 35(H) x 35(D)mm
- Both units operate from a 9 volt batteries (sold separately). Use our Cat. SB-2423
- Supplied in a protective zip up vinyl case

Supplied in a protective zip up vinyl case.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5083	\$99.95	\$89.95	\$79.95

COMPUTER & MULTIMEDIA

TYPE-C LEADS & ADAPTORS

USB TYPE-C TECHNOLOGY

The new USB Type-C technology is now being adopted in the latest computers, notebooks, MacBook's®, Tablets, Smartphones, etc. It is a compact size connector capable of carrying video, power & data at faster speeds. It is also double-sided (reversible), making it easier to insert first go. It connects to both hosts and devices, replacing the various Type-B & Type-A connectors and cables shown below with a standard meant to be "future-proof". The Type-C connector measures just 8.4mm wide x 2.6mm high

(similar to the micro-B connector), and has over 24 pins within the double-sided connector. These pins include 4 x power/ground pairs, 2 x differential pairs for USB 2.0 data bus, 4 x pairs for high-speed data bus, 2 x sideband use pins, and 2 x configuration pins for cable orientation detection, 1 x dedicated biphasic mark code (BMC) configuration data channel, and +5 V (VCONN) power for active cables. It is truly an amazing connector standing in front of even more amazing technology.



USB Type-C

TYPE-C LEADS & ADAPTORS

Type-C Leads

A new range of leads - all with Type-C males to various USB connectors.



		Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0 A Male Lead	1.8m	WC-7900	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 Micro B Lead	1.8m	WC-7902	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 Mini B Lead	1.8m	WC-7904	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 B Lead	1.8m	WC-7906	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 A Socket	150mm	WC-7908	\$9.95	\$8.75	\$7.75
Type-C to USB 3.0 A Male Lead	1m	WC-7910	\$24.95	\$22.50	\$19.95
Type-C to USB 3.0 Micro B Lead	1m	WC-7912	\$24.95	\$22.50	\$19.95
Type-C to USB 2.0 Type C Lead	1m	WC-7920	\$29.95	\$26.95	\$23.70

USB Type-C to Lightning® Lead 1m - MFI

USB C to Lightning® connector lead with reversible plugs so you won't ever have to fiddle around the back of the computer wondering if the plug is upside down! 1.0m long.

- Suitable for iPhone®, iPad® and iPod®.

Due August



		Cat.	Qty 1+	Qty 3+	Qty 6+
Length	1m	WC-7749	\$29.95	\$26.95	\$23.95

USB 2.0 to Type-C Socket Adaptor

Converts a standard USB type A plug to Type-C.



		Cat.	Qty 1+	Qty 4+	Qty 10+
		PA-0928	\$9.95	\$8.75	\$7.75

USB 3.0 A Plug to Type-C Socket Adaptor

Converts a USB 3.0 Type-C socket to Type-A plug.



		Cat.	Qty 1+	Qty 4+	Qty 10+
		PA-0929	\$14.95	\$13.45	\$11.95

TYPE-C CONVERTERS

USB 3.0 Type-C to VGA Converter

This USB 3.0 Type-C to VGA converter is designed to take advantage of high performance USB Type-C connectors on new PCs and Macs® to convert to an existing VGA signal. This converter doesn't need complicated drivers and delivers up to 1080p resolution depending on the application.



Specifications	XC-4961
Interface	USB 3.0 Type-C, VGA 15 pin
Resolution	up to 1080p, 60Hz
Dimensions	43(L) x 43(W) x 13(D)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
		XC-4961	\$59.95	\$53.95	\$47.90

USB 3.0 Type-C to DVI Converter

This USB 3.0 Type-C to DVI converter is designed to take advantage of high performance USB Type C connectors on new PCs and Macs® to convert to an existing DVI signal. This converter doesn't need complicated drivers and delivers up to 1080p resolution depending on the application.



Specifications	XC-4963
Interface	USB 3.0 Type-C, DVI-I
Resolution	up to 1080p, 60Hz
Dimensions	43(L) x 43(W) x 13(D)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
		XC-4963	\$59.95	\$53.95	\$47.90

USB 3.0 Type-C to HDMI Converter

This USB 3.0 Type-C to HDMI converter is designed to take advantage of high performance USB Type-C connectors on new PCs and Macs® to convert to an existing HDMI signal. This converter doesn't need complicated drivers and delivers up to 4 x 2K resolution depending on the application.



Specifications	XC-4965
Interface	USB 3.0 Type-C, HDMI V1.4B
Resolution	up to 4 x 2K, 30Hz
Dimensions	43(L) x 43(W) x 13(D)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
		XC-4965	\$59.95	\$53.95	\$47.90

TYPE-C CONVERTERS (CONTINUED)

USB 3.0 Type-C to HDMI Converter with Power Delivery

The USB Type-C Digital AV Multiport Adapter lets you connect your MacBook®, Google Chromebook® Pixel, Nokia N1 and other devices with USB Type-C port to an HDMI display, while also connecting three standard USB devices and a USB Type-C Power Delivery (PD) charging port. This adaptor allows you to mirror your Type-C devices display to your HDMI-enabled TV or display in up to 4K at 30Hz. It also outputs video content like movies and captured video. Using the standard USB ports to connect devices such as your flash drive or camera or a USB cable for syncing and charging your devices. You can also connect a charging cable to the USB Type-C port to charge your Type-C devices.

- Portable, Slim and Practical
- Type-C plug, reversible and easy to connect
- Based on USB 5Gbps transfer technology
- Supports USB PD Charging, Upstream Charging
- Supports PD Power Profile 4, Max 20V 3A Power Supply
- Supports HDMI 4K at 30Hz display
- Dimensions: 82 x 52 x 14mm

Product may vary to one shown



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4967	\$109.00	\$97.95	\$86.95

USB 3.0 Type-C Hub/Card Reader with Power Delivery

Expand the connectivity of your computer with this card reader with USB Type-C plug and socket. The USB Type-C plug provides USB 3.0 speeds and features 2 x USB 3.0 ports, SD and MicroSD card reader slots and a USB Type-C socket on the back. The unique power delivery system enables power demanding devices to request either 5, 12, 14.5 or 20V voltages. It recognises the device's specific voltage requirement and adjusts the output. No driver installations required, simply plug and play! This is ideal for use with the MacBook® to maximise the connectivity of its singular USB Type-C input. Also recommend to use with other devices using a USB Type-C port.

- Interface: USB 3.0 Type-C
- Inputs: 2 x USB 3.0 Type-A Ports, 1 x SDXC Slot, 1 x MicroSD Slot, 1 x USB 3.0 Type-C
- Power Delivery Port
- Supported Card Size: up to 512GB SDXC, 256GB MicroSD
- USB Transfer Rate: up to 80Mbps
- Dimensions: 81(L) x 52(W) x 15(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4308	\$79.95	\$71.95	\$63.95

TYPE-C NETWORK ADAPTOR

USB 3.0 Type-C Network Adaptor with 3 Port Hub

Sometimes Wi-Fi is simply not an option, and you need a reliable Ethernet connection. This USB 3.0 network adaptor and hub combo is designed for the latest MacBook Air® and Google Chromebook™ with new USB Type-C connectors. Currently the MacBook Air® only has one USB Type-C port which doesn't allow the use of other devices while something is plugged in. This adaptor allows you to expand up to 3 x USB 3.0 ports and provides you with an ethernet port which is non-existent on ultrabooks.

Specifications	YN-8409
Interface	1 x USB 3.0 Type-C Plug, 3 x USB 3.0 A Socket
Transfer Speed	up to 80Mbps
Network Connection	RJ45, 10/100Mbps
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.5+, Linux
Dimensions	85(L) x 24(W) x 17(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8409	\$39.95	\$35.90	\$31.90

TYPE-C HUBS & CARD READERS

USB 3.0 Type-C 4 Port Hub

Latest USB 3.0 Type-C connector for the new generation MacBook® and PCs. This 4 port hub expands your computer's connectivity and makes the most of the lightning fast speed. All 4 ports support USB 3.0 Super Speed and at the same time are downward compatible with USB 2.0. Also includes a USB 2.0 Micro B socket for additional power if required.

Specifications	XC-4306
Interface	USB 3.0 Type-C
Transfer Rate	up to 80Mbps
Dimensions	68(H) x 64(W) x 13(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4306	\$39.95	\$35.90	\$31.90

BUY IT ON THE WEB...

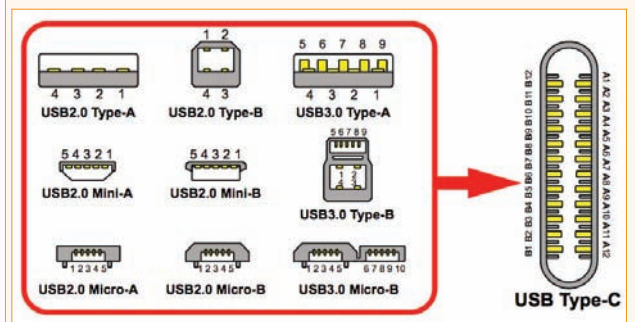
Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



TECH TALK!

TYPE-C CONNECTOR

The Type-C connector measures just 8.4mm wide x 2.6mm high (similar to the micro-B connector), and has over 24 pins within the double-sided connector. These pins include 4 x power/ground pairs, 2 x differential pairs for USB 2.0 data bus, 4 x pairs for high-speed data bus, 2 x sideband use pins, and 2 x configuration pins for cable orientation detection, 1 x dedicated biphasic mark code (BMC) configuration data channel, and +5V (VCONN) power for active cables. It is truly an amazing connector standing in front of even more amazing technology.



COMPUTER & MULTIMEDIA

TYPE-C POWER SUPPLIES & READING LIGHTS

TYPE-C POWER

60W Universal Type-C Laptop Power Supply

Ultrabooks are starting to be designed around a singular USB Type-C port to streamline charging, data and display. However, without a multiport hub or adaptor you are only able to use the USB Type-C port for one function at a time. This 60-watt adaptor features both a USB 2.0 port and USB Type-C port, allowing you to charge your computer and connect to another device at exactly the same time! Importantly, the adaptor automatically detects the optimum voltage output for the connected device. Suitable for MacBook® and Google Chromebook™.

Specifications	MP-3340
Input Voltage	100-240VAC
Output Voltage	5/12/14/15/20VDC
Output Current	3A
Power Output	60W
Output Voltage Selection	Automatic
USB Output	5VDC @ 2A
Dimensions	112(L) x 69(W) x 16(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MP-3340	\$89.95	\$80.95	\$71.95

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card
and let them choose!



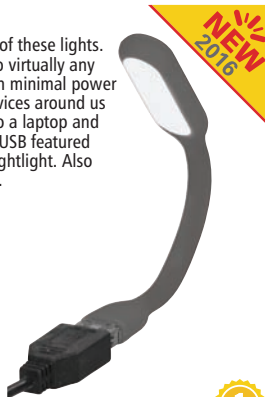
NOTEBOOK LIGHTS

Flexible USB LED Light

Every USB socket you see is a reason to have one of these lights. This ultra portable and flexible LED light plugs into virtually any USB devices and gives you bright illumination with minimal power consumption. The ever-growing variety of USB devices around us makes the use of this light more creative. Plug into a laptop and you will have yourself a reading light. Plug into a USB featured power point and it becomes an energy efficient nightlight. Also works with power banks and USB extension leads.

- Flexible, bendable and super light
- Ultra bright with low power consumption
- Black in colour

Specifications	SL-3149
Rated Power	1.2W
Input Voltage	5V
Input Current	0.25A
Colour Temperature	Day White
Lumen	100LM
Life Span	30,000 Hours
Material	Silicone
Dimensions	169(L) x 18(W) x 9(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL-3149	\$6.95	\$6.25	\$5.50

USB TEST EQUIPMENT

USB Voltage & Current Display Lead

This USB A plug to Micro USB plug cable displays the voltage and current with its bright blue LED display. It toggles in displaying the voltage & actual current charge or supply to your electronic device, Tablet & Smartphone.

Two models available:

USB A TO USB MICRO B - XC-5072

USB A TO USB A SOCKET - XC-5073



Note: Smartphone not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
Micro B	XC-5072	\$19.95	\$17.95	\$15.70
USB A	XC-5073	\$19.95	\$17.95	\$15.70

Mains Adaptor 5VDC 3A USB Type-C

Easily charge your Smartphone or tablet anywhere you go using this compact power adaptor. Plug into a mains outlet then connect your device using your USB Type-C power cable. Regardless of whether you connect a Smartphone, tablet or laptop, this adaptor will conveniently auto detect the device's ultimate charging requirements and charge accordingly. Built-in short circuit safeguard, overload protection and fully regulated output.

Specifications	MP-3445
Input Voltage	100-240VAC
Output Voltage	5VDC
Output Current	3A
Dimensions	57(L) x 54(W) x 28(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3445	\$29.95	\$26.95	\$23.70

3A USB Type-C Car Cigarette Lighter Adaptor

Charge your USB Type-C devices in your car. This adaptor features a single USB Type-C port that will deliver a 5VDC 3A output. Plug it into your car's cigarette lighter socket and away you go. Allows you to charge Smartphones, tablets, MacBooks® and Google Chromebooks™.

- Input: 12-24VDC
- Output: 5VDC 3A
- Dimensions: 50(L) x 30(Dia)mm

Note: Product may vary to one shown



	Cat.	Qty 1+	Qty 3+	Qty 6+
1 x USB	MP-3670	\$24.95	\$22.45	\$19.95
2 x USB	MP-3672	\$29.95	\$26.95	\$23.95

4 LED Book/Laptop Reading Light

A very bright book light that clips on the top or bottom of the page. The 4 LEDs provides an even light dispersion that is easy on the eyes. It's also a great travel companion for when you find yourself on a bus or train and only have a good book to keep you company.

Specifications	ST-3206
Colour temperature	5600-6000K
Illumination	150 Lux
Lumens	17
Usage time	5 hours
Requires	2 x AAA batteries
Battery run time	5 hours
Dimensions	95(L) x 35(W) x 14(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
17 Lumens	ST-3206	\$14.95	\$13.45	\$11.95



Workbench sent to us by: Karl - Jaycar Store: Dunedin NZ

This is my space. I come down here to tinker for a little while most days. It is my wee bit of paradise. I think 3D printer would fit nicely in here and I have so many uses for it too.

The photo is taken from the garage looking into the workshop where everything has its place.

For more details, visit: www.jaycar.com.au/workbench

USB LEADS & ADAPTORS

High Quality USB 2.0 Leads

High quality USB 2.0 leads for your PC peripherals, professional audio or camera equipment. Superior shielding protects against potential electromagnetic interferences and ensures data continuity. 24K Gold plated connectors.

USB A TO USB-MINI B MALE

Cat WC-7792



USB A TO USB-MICRO B MALE

Cat WC-7796



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7792	\$14.95	\$13.35	\$11.70
2.0m	WC-7796	\$14.95	\$13.35	\$11.70

USB 2.0 A to A

USB 4 Pin (A) Male to USB 4 Pin (A) Male



- Conforms to USB 2.0 standard - 480Mbps

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7707	\$5.95	\$5.25	\$4.75
1.8m	WC-7704	\$9.95	\$8.75	\$7.75

Active USB 2.0 Extension Leads

Extend your USB devices. A built-in extender allows you to put data over longer distances. All use USB timing and electrical specifications that eliminate signal errors you may get in passive cables. USB 2.0 or 3.0, male to female and cables can be joined up to 25 metres.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5m	XC-4839	\$24.95	\$22.35	\$19.70
10m	XC-4120	\$39.95	\$35.90	\$31.90
20m	XC-4124	\$49.95	\$44.90	\$39.90

USB RJ45 Extension Adaptor

Connect any USB device to your computer from up to 50 metres away via a standard Cat 5 network cable. Now you can have your printer, webcam, keyboard, mouse or any other USB device exactly where you want it without having to move your computer around.



- PC and Mac® compatible
- Requires standard Cat5e cables
- Supports USB 1.1
- Transmitter & Receiver included

Cat.	Qty 1+	Qty 4+	Qty 10+
XC-4884	\$29.95	\$26.90	\$23.70

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.



*ABN will be required - see our website or Store Manager for further details.

USB 2.0 A to A Extension Lead

- USB 4 Pin (A) Male to USB 4 Pin (A) Female
- Conforms to USB 2.0 standard - 480Mbps



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7708	\$5.95	\$5.25	\$4.75
1.8m	WC-7702	\$9.95	\$8.75	\$7.75
3.0m	WC-7703	\$11.95	\$10.70	\$9.50

USB 2.0/480 Plug A to 5 Pin Mini-B

Use this to connect your PC to a digital camera or camcorder. USB 2.0 compliant. A size male to B size mini male



Suits Sony PSP®

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7709	\$5.95	\$5.25	\$4.75
1.8m	WC-7710	\$9.95	\$8.75	\$7.75

USB A to USB Micro B Lead



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7723	\$5.95	\$5.25	\$4.75
1.8m	WC-7724	\$9.95	\$8.75	\$7.75

USB 2.0 A to B

- USB 4 Pin (A) Male to USB 4 Pin (B) Male
- Conforms to USB 2.0 standard - 480Mbps



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7705	\$5.95	\$5.25	\$4.75
1.8m	WC-7700	\$9.95	\$8.75	\$7.75
3.0m	WC-7701	\$11.95	\$10.70	\$9.50
5.0m	WC-7706	\$14.95	\$13.35	\$11.70

TECH TALK!

USB OTG (On-The-Go) is a specification which enables users to connect a standard USB input device, such as a computer mouse, keyboard, and sometimes a USB thumb drive to USB devices such as Smartphones.

USB2.0 OTG Female A Plug to Right-Angle Micro Male B Plug

Connect a USB peripheral to a USB OTG compliant mobile/portable electronic device, such as your Smartphone.

- Length: 150mm



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC-7725	\$4.95	\$4.45	\$3.90

USB A Socket to Samsung® OTG Adaptor

Allows you to connect a USB peripheral such as a USB flash drive or USB hub to your Samsung® Galaxy Tablet.

- Length: 220mm



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
220mm	WC-7747	\$4.95	\$4.45	\$4.00

USB 3.0 LEADS & ADAPTORS

USB 3.0 Adaptors

PLUG B TO SOCKET A ADAPTOR

Cat PA-0930



MICRO B PLUG TO SOCKET A ADAPTOR

Cat PA-0931



MICRO B PLUG TO SOCKET B ADAPTOR

Cat PA-0933



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-0930	\$7.95		
PA-0931	\$9.95	\$8.75	\$7.75
PA-0933	\$7.95		

USB 3.0 Leads

USB 3.0 offers data rates of up to 4.8Gbps - a quantum improvement over USB 2.0.



USB 3.0 MALE A TO MALE B LEAD

WC-7772



USB 3.0 MALE A TO MALE A LEAD

WC-7770



USB 3.0 MALE A TO MICRO B LEAD

WC-7774



POWERED USB 3.0 EXTENSION LEAD 5M

Suitable for high speed USB 3.0 applications.

- USB A plug to socket
- 5 metre.



XC-4126

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7772	\$14.95	\$13.35	\$11.70
1.8m	WC-7770	\$14.95	\$13.35	\$11.70
1.8m	WC-7774	\$14.95	\$13.45	\$11.95
5m	XC-4126	\$34.95	\$31.45	\$27.90

BNC TERMINATOR

BNC Terminator Plug

To terminate BNC sockets.

- Built-in 50Ω resistor.



Cat.	Qty 1+	Qty 10+	Qty 50+
PP-0655	\$4.95	\$4.45	\$3.90

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

COMPUTER DATA & VIDEO CABLES COMPARISON GUIDE

Use	Quality	Connector	to	Connector	Length	Cat.	Page
Computer	Best	DB9	Socket	DB25	Socket	1.8m	WC-7514 328
Computer	Best	DB9	Plug	DB9	Socket	1.8m	WC-7534 328
Computer	Best	DB9	Socket	DB9	Socket	0.5m	WC-7511 364
Computer	Best	DB9	Socket	DB9	Socket	1.8m	WC-7513 328
Computer	Best	DB9	Plug	DB9	Plug	1.8m	WC-7535 328
Computer	Best	DB25	Plug	DB9	Socket	1.8m	WC-7516 328
Computer	Good	DB26HD Plug + 3.5mm Stereo		DB26HD Plug + 3.5mm Stereo		1.8m	WC-7584 328

Use	Quality	Connector	to	Connector	Length	Cat.	Page
Computer	Good	DB15HD	Plug	DB15HD	Socket	1.8m	WC-7500 328
Computer	Good	DB15HD	Plug	DB15HD	Plug	0.5m	WC-7583 328
Computer	Good	DB15HD	Plug	DB15HD	Plug	1.8m	WC-7582 328
Computer	Best	DB15HD	Plug	DB15HD	Plug	0.5m	WC-7585 328
Computer	Best	DB15HD	Plug	DB15HD	Plug	2.0m	WC-7586 328
Computer	Best	DB15HD	Plug	DB15HD	Plug	5.0m	WC-7588 328
Computer	Best	DB15HD	Plug	DB15HD	Plug	10.0m	WQ-7258 328
Computer	Best	DB15HD	Plug	DB15HD	Plug	15.0m	WQ-7257 328

DVI VIDEO CABLES

DVI TO DVI VIDEO CABLE

- Can be used for DVI-A or DVI-D
- Male to Male
- 24 pin
- 2m



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7590	\$29.95	\$26.95	\$23.95

DVI-A TO VGA VIDEO CABLE

- DVI to 15pin HD VGA
- 2m



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7594	\$24.95	\$22.35	\$19.70

SERIAL CABLES

DB9 MALE TO DB9 FEMALE EXTENSION CABLE

All pins wired straight through.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7534	\$9.95	\$8.75	\$7.75

DB9 FEMALE TO DB9 FEMALE NULL MODEM



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7511	\$6.95	\$6.25	\$5.50
1.8m	WC-7513	\$11.95	\$10.70	\$9.50

DB9 MALE TO DB9 MALE



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7535	\$9.95	\$8.75	\$7.75

SERIAL MODEM CABLE

DB25 Male to DB9 Female



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7516	\$11.95	\$10.70	\$9.50

MONITOR CABLES

VGA MONITOR LEAD WITH 3.5MM AUDIO

1.8m VGA DB15HD to DB15HD lead. Includes a stereo 3.5mm plug at each end for audio transfer.



Cat.	Qty 1+	Qty 4+	Qty 10+
WC-7584	\$16.95	\$14.95	\$13.35

VGA MONITOR EXTENSION

DB15HD male to DB15HD female



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7500	\$11.95	\$10.70	\$9.50

VGA MONITOR CONNECTING CABLE

DB15HD Male to DB15HD Male



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7583	\$6.95	\$6.25	\$5.50
1.8m	WC-7582	\$11.95	\$10.70	\$9.50

XVGA MONITOR CONNECTING CABLES

- DB15HD male to DB15HD male
- Ferrite suppression on both ends
- Superior electrical screening



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7585	\$8.95	\$7.95	\$6.95
2.0m	WC-7586	\$18.95	\$16.95	\$14.95
5.0m	WC-7588	\$39.95	\$35.90	\$31.90
10.0m	WQ-7258	\$49.95	\$44.90	\$39.90
15.0m	WQ-7257	\$69.95	\$62.95	\$55.95

LAPLINK CABLES

RS-232 SERIAL LAPLINK CABLE



Length	Cat.	Qty 1+
1.8m	WC-7514	\$8.95

AUTOMATIC ACCOUNT

For Schools, Government
Departments,
Public Companies,
Radio & TV Stations

RELATED PRODUCTS

FROM
\$64.95
YN-8081



KVM SWITCH

P330

FROM
\$9.95
HP-1228



DESK GROMMET

P206

FROM
\$14.95
WH-5654



CABLE WRAP

P205

FROM
\$59.95
CW-2831



MONITOR BRACKET

P332

GENDER CHANGERS

DB9

All pins wired straight through.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA-0900	\$5.95	\$5.25	\$4.75
Female/Female	PA-0901	\$5.95	\$5.25	\$4.75

DB9 MALE TO FEMALE ADAPTOR - 90°

DB9 Male to DB9 Female
Cat PA-0908



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
DB9	PA-0908	\$5.95	\$5.25	\$4.75

VGA PLUG TO SOCKET - 90°

VGA plug to socket right angle adaptor.

- Available with the socket angles up or down



PA-0898

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Angled Up	PA-0898	\$8.95	\$7.95	\$6.95
Angled Down	PA-0899	\$8.95	\$7.95	\$6.95

DB15 HIGH DENSITY

All pins wired straight through.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA-0875	\$6.95	\$6.25	\$5.50
Female/Female	PA-0876	\$6.95	\$6.25	\$5.50

DB25/DB9

D25 Female to D9 Male serial port adaptor.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25F/DB9M	PA-0882	\$5.95	\$5.25	\$4.75

DVI-A PLUG TO VGA SOCKET

For connecting DVI-A or DVI-I video cards with VGA monitors.

- Note: Will not display the digital video signal from a DVI-D output, even though the plug physically fits.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0897	\$12.95	\$11.35	\$10.35

AUTOMATIC ACCOUNT

**For Schools, Government
Departments,
Public Companies,
Radio & TV Stations**

USB ADAPTORS

"A" FEMALE TO "A" FEMALE



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Skt to skt	PA-0921	\$7.95	\$6.95	\$6.25

"A" MALE TO PS/2 FEMALE



PA-0915

"A" FEMALE TO PS/2 MALE

Colour may vary.



PA-0917

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Male	PA-0915	\$7.95	\$6.95	\$6.25
USB Female	PA-0917	\$7.95	\$6.95	\$6.25

CONFIGURABLE RJ45 ADAPTORS

DB25 MALE TO RJ45 8 X 8 SOCKET

- Unwired



ACMA Approved

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25 Male	PA-0904	\$7.95	\$6.95	\$6.25

DB9 SOCKET TO RJ45

- Socket Adaptor.
- Unwired



ACMA Approved

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0906	\$5.95	\$5.25	\$4.75

VIDEO ADAPTOR

DIGITAL VIDEO INTERFACE

- Female to female
- Compatible with DVI-I single dual link, DVI-D single/dual link & DVI-A male
- All pins wired straight through



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0896	\$14.95	\$13.35	\$11.70

CONVERTERS & ADAPTORS

USB to Parallel Bi-Directional Cable

Parallel printer ports have disappeared from most modern desk top computers and virtually all new notebook computers. This is not a problem if you have a USB printer, but many people still want to use their parallel printer or other parallel port devices such as ZIP drives or external CD-ROMs etc. This handy device replicates the old 25 pin printer socket and lets you use your legacy devices just like you would with a normal printer port. The USB interface provides up to 12Mbps data throughput, so printing is significantly faster compared with standard a parallel port (150kbps) connection.



- USB Printer Class Specification 1.0 compliant
- IEEE-1284 1994 (Bi-directional parallel interface)
- Cable Length: 2 metres
- USB 1.1 Compliant A type male connector
- Compatibility: Windows 8.1, 8, 7, Vista, XP
- Plug & Play support

↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	2m	XC-4847	\$39.95	\$35.90	\$31.90

RS-232 DB9 to USB Converter

Connect a variety of legacy RS-232 devices to your modern computer with this simple adaptor.



- USB 1.1 compliant / Speed: Over 250kbps
- Remote wake-up and power management
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4927	\$27.95	\$24.95	\$22.35

USB to DB9M RS-232 Converter

This USB to 9 pin Serial (RS-232) converter allows a computer with a USB port to use any RS-232C serial device via the USB port. Suitable for digital cameras, modems, POS systems, ISDN terminal adaptors etc. The converter is powered by the USB port.



- Full compliance with USB specification 1.1(0)
- Over 1Mbps data transfer rate
- Support remote wake-up and power management
- Cable 1.5m long.
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 8.6+, Linux

↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.5m	XC-4834	\$29.95	\$26.95	\$23.95

RS-485/422 to USB Converter

Wire up an RS-485/422 device to the 4 socket terminal block to give your hardware USB connectivity.



It features surge protection to guard against unpredictable voltage spikes. Suitable for industrial, military, marine, science and custom built applications.

One USB A male to male cable is supplied.

- Includes a 610mm USB A Male to Male cable
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 55(L) x 42(W) x 24(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4132	\$89.95	\$80.95	\$71.95

Serial to Ethernet Converter

With this converter, computers can connect to serial devices over Ethernet. It's an ideal solution for people who need to monitor or access RS-232 based equipment remotely or to share them over a network.



There is one 9-pin male RS-232 plug, an RJ-45 socket and a terminal block to wire up RS-485 or RS-422 connections.

- Can be accessed remotely through a simple web interface.

Specifications	XC-4134
Supports	10/100M
Converts	RS-232, RS-485 and RS-422
Dimensions	88(L) x 68(W) x 27(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4134	\$149.00	\$133.95	\$118.95



KVM SWITCH

2 Port VGA/USB KVM Switch with Audio

Control two computers with a single computer screen, keyboard, and mouse at a time. This 2 Port VGA/USB KVM (Keyboard-Video-Mouse) Switch is perfect for those of you who work with more than one computer simultaneously and don't want the clutter of two keyboards, mouse and screens. You can toggle between the two computers with either the QuickSwitch button, via the customisable hotkeys, or with the KVM Switcher software.



- High video resolution support (up to VGA Resolution: 1920 x 1440 (Digital); 2048 x 1536 (Analogue))
- Features QuickSwitch button on a 1.5m wired remote control
- Supports wireless USB keyboard / mouse, USB flash drive and other USB devices
- Supports Microsoft IntelliMouse Optical, IntelliMouse Explorer, and Logitech USB mice
- Features plug-and-play and hot-plugging capability
- KVM switching via hotkey, QuickSwitch button, or KVM Switcher software
- Supports DOS, Windows® 3.x/95/98/SE/ME/XP/2000/NT/Vista®/7, Mac®, Netware®, Unix®, and Linux®



Specifications	YN-8081
PC Port Connector	HDB-15 x 2, USB A Type x 2, 3.5mm Speaker & Microphone plug x 2
Console Port Connector (Female)	HD-15F x 1, USB A Type x 2 3.5mm Speaker & Microphone Jack
PC Selection	Hotkey / QuickSwitch Button / KVM Switcher Software
KVM Cable	2 x 900mm combo cables
Dimensions	38(L) x 20(W) x 11(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8081	\$64.95	\$58.50	\$51.95

VIDEO CONVERTERS

Composite & S-Video to VGA Video Converter with VGA Loop Through

Connect a composite video or S-video source to a display monitor which only has VGA input. Ideal for connecting an old game console, VHS player, etc to your computer monitor or plasma TV. Features an on screen display where you can adjust resolution, picture mode, brightness, contrast, saturation and hue. Also has VGA loop through so you can have a computer and composite/S-video source connected to the same display.

- On screen display
- Supports PAL/NTSC
- Digital comb filter to prevent cross colouring
- Compatible resolutions:
 - 800 x 600 @ 60Hz/75Hz
 - 1024 x 768 @ 60Hz
 - 1280 x 1024 @ 60Hz
 - 1280 x 720 @ 60Hz
 - 1360 x 768 @ 60Hz
 - 1440 x 900 @ 60Hz
 - 1600 x 1200 @ 60Hz
 - 1680 x 1050 @ 60Hz
 - 1920 x 1080 @ 60Hz
 - 1920 x 1200 @ 60Hz
- Dimensions: 95(L) x 54(W) x 26(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4906	\$49.95	\$44.90	\$39.90

VGA to DVI, Analogue to Digital Signal Converter

Current computer LED displays support digital DVI inputs only, however many small form factor PCs and older computers use video cards with analogue VGA output only. Use this converter to convert the analogue signal from your video card to a digital signal suitable for use with the latest LCD or LED display.

- Converts analogue VGA signal to digital DVI signal
- Supports a maximum display resolution of 1280 x 1024
- 165MHz/1.65Gbps per channel (6.75Gbps all channel) bandwidth
- 8-bit per channel (24-bit all channels) deep colour



Specifications	WQ-7446
Input video signal	0.5-1.0V p-p
Input video	VGA (female)
Output video	DVI (female 24+1)
VGA resolution	640x480 at 60/75Hz 800x600 at 60/75Hz 1024x768 at 60/75Hz 1280x720 at 60/75Hz 1280x768 at 60/75Hz 1280x960 at 60/75Hz 1280x1024 at 60/75Hz
Vertical frequency range	50/60Hz
Video amplifier bandwidth	1.65Gbps/165MHz
Dimensions	88(L) x 68(W) x 25.5(H)mm



	Cat.	Qty 1+
	WQ-7446	\$49.95

VGA to Composite & S-Video Converter

A compact and versatile device that lets you use your wide screen plasma or LCD screen as a computer monitor for gaming or presentation use. The unit accepts a standard VGA input and generates both composite video and S-Video signal simultaneously, so you can watch and record the video signal at the same time or even send it over a video distribution system. Great for watching DVDs, gaming, presentations, or just having a big screen on your computer. The unit powered from the computer's USB port and has an on-screen setup menu to adjust the video output signal and picture size. No software is required.



Back view



- Supports composite video and S-video output
- Up to 1024 x 768 resolution
- Display on both PC and TV simultaneously
- Input and output leads included
- Powered from USB Port
- Size: 90(L) x 70(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4871	\$69.95	\$62.95	\$55.95

USB to DVI Adaptor

Enabling the addition of up to six extra displays, this adaptor allows you to add high-resolution graphics without having to add a graphics card - just connect it to any USB 2.0 port. Ideal for gamers, conference or AV rooms, POS systems or industrial applications.



- Supports DVI video output via HDMI-DVI adapter
- Easily connects additional monitors using a USB 2.0 cable
- Mirror or extend computer display workspace
- Resolution: up to 1,920 x 1,080 pixels at 32-bit colours
- No external power supply needed
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4879	\$89.95	\$80.95	\$71.95

2 Port VGA/Audio Splitter

Takes a computer's VGA and audio signal and sends it to two (2) analogue monitors and headphones/speakers via Cat5 cable. The same image is displayed on both monitors and identical audio streams are piped to each 3.5mm audio jack. The splitter provides fast, flexible solutions for test bench facilities, data centres or video broadcasting such as remote monitoring, presentations, education and stock quotes etc. Supports VGA, SVGA, XGA and Multi-Sync. Mains power adaptor included.



- Bandwidth up to 500MHz
- Resolution up to 1920 x 1200 and 1080p
- Transmit video/audio up to 15m
- Dimensions: 125(W) x 25(H) x 72(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Port Splitter	YN-8075	\$74.95	\$67.45	\$59.95

2 Way DisplayPort Splitter

This two way DisplayPort splitter will send identical signals to two monitors simultaneously. It supports a maximum bit rate of 21.6Gbps and 7.1 ch audio up to 192kHz sample rate.



- 16 bit deep colour video up to 4K2K@60Hz
- Supports DisplayPort V1.2a
- Includes 5V 1A power supply
- Dimensions: 70.5 x 60.5 x 20.5mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1755	\$99.95	\$89.95	\$79.95

2 Way DisplayPort Switcher

This DisplayPort switcher will allow you to select between two signal sources to send to a single monitor. It's an ideal solution for sharing a single monitor between two computers for example. It supports a maximum bit rate of 21.6Gbps and 7.1 audio up to 192kHz sample rate.



- 16 bit deep colour video up to 4K2K@60Hz
- Supports DisplayPort V1.2a
- Includes 5V 1A power supply
- Dimensions: 70.5 x 60.5 x 20.5mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1757	\$99.95	\$89.95	\$79.95

VIDEO CONVERTERS (CONTINUED)

VGA & USB Audio to HDMI Audio/Video Converter

Connect older PCs up to more modern displays such as LCD's and plasma screens. Just plug the VGA and USB cable into your PC and it will output a HDMI signal with audio/video. Doesn't get much simpler than that as the converter requires no external power.

- Fantastic for turning that old laptop or PC into a media centre for use on your big new flat screen.



Specifications	AC-1639
VGA cable	300mm long
USB cable	1200mm
Supports	165MHz/1.65Gbps per channel
Powered	from USB port
Converter unit	80(L) x 55(W) x 11(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm/1200mm	AC-1639	\$79.95	\$71.95	\$63.95

USB 3.0 (Video/Audio) to 1080p HDMI

Add an additional monitor or projector to your computer. Uses USB 3.0 superspeed to ensure smooth and responsive 1080p streaming. A great solution if your current PC has limited display outputs but you require more screen landscape. It also carries audio through to the HDMI output so you can turn your PC into a home theatre PC without audio sync issues.



- Supports 16:9 full HD 1080p video streaming
- Resolutions up to 2048 x 1152 @ 32 bit colour
- HDMI ver 1.2 compatible
- Low power consumption
- Supports desktop mirror, extend mode, multi-screen mode, & rotation mode
- Add up to four USB 3.0 adaptors simultaneously
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+
- Dimensions: 275mm x 35mm x 15mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4973	\$109.00	\$97.95	\$86.95

VGA & R/L Audio to HDMI Scaler Converter

Combines the audio and upscale the VGA output signal on a computer to 1280 x 720p for optimum viewing on a HDTV. Ideal for computers that only have a VGA output.

- HDMI resolution fixed to 1280x720p
- HDMI 165MHz/1.65Gbps per channel (6.75Gbps total)
- HDMI 8 bit per channel



Signal inputs/outputs	AC-1617
Input signal	VGA, R/L audio
Output video signal	HDMI 720p
VGA resolutions	640 x 480 at 60/72/75/85Hz 1024 x 768 at 60/70/75/85Hz 1280 x 768 at 60/70/75/85Hz 1280 x 960 at 60Hz 1440 x 900 at 60/75/85Hz 1920 x 1200 at 60Hz
	800 x 600 at 60/72/75/85Hz 1280 x 720 at 60Hz 1280 x 800 at 60/70/75Hz 1280 x 1024 at 60Hz 1920 x 1080 at 60Hz 1920 x 1440 at 60Hz

Note: It is possible that several resolutions are limited on few displays

- Vertical frequency range: 50/60Hz
- Video amplifier bandwidth: 1.65Gbps/165MHz
- Dimensions: 88(L) x 68(W) x 25.5(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1617	\$99.95	\$89.95	\$79.95

DISPLAY CONVERTERS & ADAPTORS

DisplayPort to DisplayPort Male Lead

A DisplayPort lead primarily used to connect a video source to a display device such as a computer monitor.

- Supports DisplayPort V1.2

Three types to choose from.



↑	Type	Length	Hz	Cat.	Qty 1+	Qty 4+	Qty 10+
	Plug to Plug	1.8m	60	WQ-7450	\$19.95	\$17.95	\$15.70
	Plug to Plug	3.0m	30	WQ-7452	\$29.95	\$26.95	\$23.70
	Plug to Mini Plug	1.8m	30	WQ-7454	\$29.95	\$26.95	\$23.70

Mini DisplayPort to VGA Converter

Connect modern computers with a Mini DisplayPort to a conventional VGA display, such as CRT, LCD monitor or projector. Mini DisplayPort offers a unified, scalable, and cost effective interface for embedded and external display applications.

- Mini DisplayPort 1.1a compliant
- Supports up to 1080p, 1920 x 1200 video resolution



↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.8m	WQ-7440	\$29.95	\$26.90	\$23.70

Mini DisplayPort to DVI Video Cable

Converts the Mini DisplayPort on a Mac® or other Apple® product to a standard DVI connector, which can connect to a standard monitor.



↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.8m	WQ-7444	\$29.95	\$26.90	\$23.70

Mini DisplayPort to HDMI Lead for Mac®

Connect your Mac® to a high definition display with this mini display HDMI lead.

- Designed for Mac® computers
- Plug and play



↑	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	1.8m	WQ-7442	\$29.95	\$26.90	\$23.70

Mini DisplayPort to DisplayPort/HDMI/DVI Converter

Combine several mini DisplayPort converters into one with this useful unit. Easily converts to high definition displays that take HDMI, DVI or DisplayPort. Fully powered from the mini DisplayPort of your input device. A useful tool to use with your Macbook Air® or other Apple® device when wanting to output to a large screen TV.

- Output types: DisplayPort Female Type A 20pin, HDMI Female Type A, DVI Female (24+1)
- Supports DisplayPort 1.1a
- HDMI can support audio output for iMac® and MacBook Pro®
- HDMI/DVI output up to 1920 x 1080p @ 60Hz
- Display it auto detected
- DisplayPort 1.1a Dual-mode output with max resolution of 2560 x 1600
- Lead length: 180mm
- Unit Dimensions: 78(L) x 44(W) x 15(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	WQ-7427	\$39.95	\$35.90	\$31.90

RELATED PRODUCTS

FROM
\$6.15
HP-1218



CABLE TIDY PRODUCTS P208

FROM
\$9.95
HP-1228



DESK GROMMET P206

FROM
\$4.95
HP-1210



CABLE TIES P208

FROM
\$5.95
YN-8016



WALLPLATES P227

MONITOR BRACKETS

LCD Computer Screen Desk Brackets

Desk space, the final frontier. If your desk is clogged with notes, manila folders and finding space is becoming a dangerous balancing act, then you need an LCD bracket. These brackets use a C-type clamp for a powerful lock onto a variety of desk thicknesses. The monitor can swivel horizontally, tilt vertically, and extends to approximately 400mm from the base. For an extra bit of customisation, the monitor can be rotated from portrait to landscape,

which is especially useful for the double screen model. To bolster desk neatness, easy to open cable clips run along the structure of the bracket to house your DVI cable, monitor power cable or any other cable that requires monitor connection. Both brackets feature a sleek matte black finish for an inconspicuous blending into your desk motif.

Suitable for monitors up to 27".

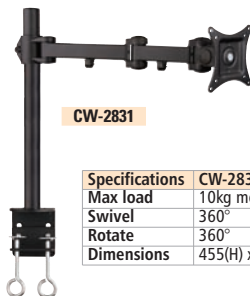


Note: Monitor not included

For our full range of Monitor Mounting Hardware see page 375

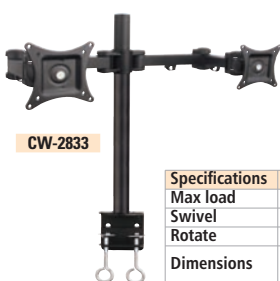
SINGLE SCREEN LCD BRACKET

- VESA mounting (75mm x 75mm and 100mm x 100mm)
- Fully adjustable arms
- Rotate monitor from landscape to portrait



CW-2831

Specifications	CW-2831
Max load	10kg monitor
Swivel	360°
Rotate	360°
Dimensions	455(H) x 490(L)mm



CW-2833

Specifications	CW-2833
Max load	10kg monitor
Swivel	360°
Rotate	360°
Dimensions	455(H) pole height, each arm 490mm(L)



Note: Monitors not included



	Cat.	Qty 1+	Qty 5+	Qty 10+
Single Screen Bracket	CW-2831	\$59.95	\$53.95	\$47.95
Dual Screen Bracket	CW-2833	\$79.95	\$71.95	\$63.95

Articulating Mounting Arms to Suit Apple® iMacs® & Displays

In keeping with the stylish nature of Apple® products, we introduce two very stylish articulated mounting arms. Both are white in colour, one desk mount, the other wall mount. Both conform to the unique rear mounting arrangements of the Apple® product.

Note: To remove your current iMac® stand you must slide a thin piece of plastic or cardboard in the stand socket, this will switch a lever (you should hear an audible click) so you can turn the stand and expose screws. Then remove all screws and the stand can be taken off for attachment to the bracket.

Both units will carry 14 kilograms at the maximum lift of 371 mm. The maximum extension is 663mm for CW-2870 and 680mm for the CW-2871.

Compatibility:

- 27" Thunderbolt® Display
- 24" - 27" LED Cinema Display
- 24" iMac® (aluminium & glass)
- 27" iMac®

TECH TALK!

APPLE® DISPLAYS STAND REMOVAL

Note: To remove your current iMac® or Thunderbolt® LCD Monitor stand you must slide a thin piece of plastic or cardboard in the stand socket, this will switch a lever (you should hear an audible click) so you can turn the stand and expose screws. Then remove all screws and the stand can be taken off for attachment to the bracket. See our website for a video.



Note: Bracket colour will be white



	Cat.	Qty 1+
Desk Mount	CW-2870	\$49.95
Wall Mount	CW-2871	\$39.95

Single LCD Monitor Desk Stand

Features a big sturdy base designed to keep your desk clutter free and monitor at eye level. Cable management allows you to run your power and video leads down the structure of the stand to keep your workspace clear of cables. Black powder coated finish will ensure it doesn't get scratched too easily. There is also the option of bolting it to a desk (will require drilling) if you require a more permanent installation. An M10 bolt with washer is supplied.



Monitor not included

- VESA mounting (75mm x 75mm and 100mm x 100mm)
- Recommended monitor size: 13-27" using securing bolt; up to 22" using free standing base
- Tilt: Up 90°, down 45°
- Rotate: 360°
- Dimensions: 490(H)mm pole, 270(L)mm arm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Desk Mount	CW-2839	\$99.95	\$89.95	\$79.95

PC SECURITY

Combination Notebook Cable Lock

As easy as typing in four digits to unlock your phone, this laptop security cable has a four digit combination that you can customise for security. It's 1.8m long and has a swivel on the end so moving it around your desk area will not be a problem.

- 4 digit combination
- Steel lock mechanism



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	XC-4639	\$16.95	\$14.95	\$13.35

STORE DETAILS

For store locations and opening hours see the back cover of this catalogue or visit our website.



MULTIMEDIA SPEAKERS



XC-5191

USB Powered PC Speakers

Portable USB-powered speakers for use with laptops, desktop PCs or mobile music players. Contemporary, space saving design with plug and play functionality.

Separate volume control, power switch and headphone output, and as they're powered via your computer's USB, there's no need to use a plug pack or batteries. XC-5191



XC-5120

Active Multimedia Speakers

Connect your PC, MP3 player, Smartphone or Tablet to these stylish 2 channel speakers. The attractive folded back design matches the surprisingly good audio quality.

Mains powered and supplied with a 3.5mm stereo audio cable for almost universal connection to an array of devices. XC-5120

Specifications	XC-5191	XC-5120
Power output	1.8WRMS	3W
Input jack	3.5mm	3.5mm
Input power	USB	240VAC
Frequency response	160Hz - 20kHz	100Hz - 20kHz
Dimensions	154(H) x 75(W) x 36(D)mm	170(H) x 90(D) x 70(W)mm

Plug	Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
USB	1.8WRMS	XC-5191	\$14.95	\$13.35	\$11.70
3.5mm	3W	XC-5120	\$29.95	\$26.95	\$23.95

WEB CAMERAS



QC-3203

High Definition 720p Webcam

Quickly whip up a 720p video for your next website on YouTube. Featuring a five-layer lens, high-resolution CMOS sensor. Can be used for video conferencing or webcam chat.

- HD 720p video recording (Max Resolution 1280 x 720)
- High quality 5MP wide angle lens
- Multi-functional clip
- Built-in high sensitive stereo microphone
- Up to 12MP photo resolution (Software enhanced)
- Multi-utility camera base for CRT, laptop or LCD monitor
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.4+, Linux QC-3203

High Definition 1080p Web Camera

A high resolution web camera for Skyping, making YouTube videos, and other on or offline activities. The unit has an inbuilt mic so you don't have to wrap a clunky headset around your head when video chatting online. It's capable of taking 12MP still images (Software enhanced). The foldable stand allows it to comfortably sit on top of a CRT, laptop or LCD monitor.

- Full HD1080p Video Recording (Max Resolution 1920 x 1080)
- High quality 5MP lens
- Multi-functional clip with 360 degree rotation
- Built-in high sensitive stereo microphone
- Snap shot button for image capture
- Up to 12 Mega Pixel image capture. (Software enhanced)
- 360 degree rotation
- Built-in microphones with automatic noise reduction
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.4+, Linux QC-3205



	Cat.	Qty 1+	Qty 4+	Qty 10+
720p	QC-3203	\$34.95	\$31.45	\$27.90
1080p	QC-3205	\$44.95	\$40.45	\$35.95

PC AUDIO

PC Desktop Microphone - Omnidirectional

A high quality gooseneck microphone that is ideal for Skype chat, podcasting, video conferencing and music/voice recordings. It has a solid base to provide stability and a flexible neck angle to position it to the optimum position.



Specifications	AM-4089
Mic plug	3.5mm
Cable Length	2m
Impedance	<2.2k ohm
Sensitivity	-58dB±3dB
Frequency	100Hz-16kHz
Directivity	Omnidirectional
Dimensions	355(L) x 9(Dia)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
3.5mm plug	AM-4089	\$15.95	\$14.35	\$12.75

7.1/5.1 USB External Sound Card

To keep costs down, laptops, Tablets, and desktop PCs often suffer from poor onboard audio. Achieving good sound is too often neglected when compared to computing power, video performance, or how many cores the CPU has. Dedicated sound cards offer a way to give a crisp, bassy, more complete sound that will make games and movies far more immersive. This device supports analogue and digital audio for 2.1 to 7.1 speakers. There is digital input/output (TOSLINK) plus analogue input (3.5mm) for connecting Tablets and mp3 players up. There's also a headphone output for the gamer or stealth movie watcher. Simply connect the sound card to your USB port, connect to your speakers and enjoy the pleasures of superior sound. Compatible with Windows & Mac®.

External connections

- Headphone output (3.5mm)
- 2 x microphone input (3.5mm)
- Digital input (optical TOSLINK)
- Digital output (optical TOSLINK)
- Line input (for phones, iPod): 3.5mm
- Front left/right output: 3.5mm
- Surround left/right output: 3.5mm
- Rear left/right output: 3.5mm
- Centre/subwoofer: 3.5mm
- USB type B connector
- Dimensions: 120(L) x 60(W) x 22(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4905	\$69.95	\$62.95	\$55.95

For our HDMI Miracast Dongle see page 358



TV TUNER

USB TV Tuner with Remote Control

This USB TV dongle will allow you to watch free air digital TV or listen to digital FM radio on your PC or Laptop. Simply plug it in, install the software then let it auto scan for channels in your area and begin watching. Live TV can be recorded and viewed later which is great for sporting events or your favourite TV shows. Comes with an IR remote so you can sit back and enjoy. Includes portable antenna and remote control.

- Time-shifting and scheduled recording function
- Auto channel scan and name recognition
- Supports real-time video recording in MPEG-2 format

Specifications	XC-4928
Input Signal	75 ohm (VHF / UHF)
Receiving Frequency	VHF 174-230 MHz UHF 470-862 MHz
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP
Dimensions	38(L) x 20(W) x 13(H)mm



Please Note:

Do not expect too much performance with this antenna. It is basically an "indoor" T.V. Antenna. (See our technical explanation for indoor antennas on page 368). It will work best in areas where you are no more than 5-10km from the transmitter or repeater antenna. You are ALWAYS far better "biting the bullet" and installing a roof top high gain antenna so that you are guaranteed a good signal with corresponding healthy data rates.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4928	\$34.95	\$31.45	\$27.90

COMPUTER & MULTIMEDIA

KEYBOARDS, MICE & GAMING

KEYBOARDS

Black QWERTY USB Keyboard

This incredibly flat and light QWERTY keyboard is plug & play and simple to use. Change the inclination with the two stands that are discreetly tucked away on the sides.



- Supports API or APM II
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 452(L) x 161(W) x 20(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5146	\$10.95	\$9.85	\$8.75

Roll Up QWERTY Keyboard

A flexible and virtually indestructible QWERTY keyboard. The moisture-resistant silicone allows you to spill as much as you like with no effect on function. Dropping donut crumbs into more traditional keyboards requires tediously removing keys to clean out the mess. The bendable silicon allows for easy transportation and the material creates a seamless typing experience. Perfect for industrial or wet areas such as factories, labs, workshops, restaurants, shops and food preparation areas. As it rolls up into a compact bundle, it's also ideal for travellers.



- USB interface
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Can be rolled up to 135(H) x 80(Dia)mm
- Laid out dimensions: 405(W) x 135(D) x 10(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5172	\$19.95	\$17.95	\$15.95

2.4GHz Wireless Keyboard & Mouse

An all-in-one wireless keyboard and mouse solution perfectly suited to home or office PC applications. Features Qwerty keyboard and an ergonomically designed precision mouse with scroll wheel. A nano sized USB receiver is tucked into the base of the mouse for connection to your PC.



- Operating range: Up to 10m
- Operates on the 2.4GHz spectrum
- Mouse: 2 x AAA batteries (included)
- Keyboard: 1 x AAA battery (included)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Keyboard dimensions: 435(L) x 125(W) x 18(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	Wireless Keyboard & Mouse XC-5174	\$34.95	\$31.45	\$27.95

USB Keystroke Prankster

Unleash moments of confusion and panic on unsuspecting victims with what appears to be a USB drive. Simply plug it into their computer and it will either randomly type sentences, engage capslock or move the mouse on their PC. Little switches allow you to control the prank option and a dial will adjust the frequency. It's advisable to keep the frequency low to avoid suspicion. PC compatible.



- Prank capslock, keyboard, mouse or mixtures of all three
- Dial to adjust frequency from 5 seconds to 15 minutes
- Dimensions: 34(L) x 17(H) x 7(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4300	\$29.95	\$26.95	\$23.70

Mini Wireless Keyboard with Trackball

Perfect for use as an advanced "remote control" for your Internet enabled TV or home media PC. Navigating through web pages on the big screen from the couch will need more than your standard up/down/left/right remote. This handy keyboard features the full QWERTY key layout and a brilliant little trackball and mouse scrollwheel. It also has those handy media shortcut keys, play, pause, fast forward/rewind and volume controls etc. Operates on the popular 2.4GHz band for easy wireless access. Includes nano sized USB dongle.



- Features a low battery power LED indicator
- Operation range: 9m
- Requires 2 x AAA batteries (included)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 261(L) x 112(W) x 30(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	Wireless XC-4943	\$59.95	\$53.95	\$47.95

USB INTERFACE / DATA CABLES

USB MIDI Interface 2m Cable

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc. Plug and play, no software or drivers required. MIDI in and MIDI out connectors with LED indication.



- Compatible with Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4934	\$29.95	\$26.90	\$23.70

GAMING ACCESSORIES

USB Gaming Mouse

Every gamer needs one of these 5 button gaming mice with its intuitive design. Dedicated CPI (Count Per Inch) button to adjust pointer speed without the need to go into settings, so you can quickly change sensitivity while in-game. The wire is braided to minimize friction for optimal performance and accuracy, it also prevents annoying tangling.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5250	\$44.95	\$40.45	\$35.95

Gaming Headphones with Adjustable Microphone

A gaming headset designed for hardcore gamers who enjoy many hours of game-play and demand superior gaming audio, clarity, and bass. They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120-degrees. The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch. Includes a 2 x 3.5mm to 4 pole adaptor.



- Plug type: 2 x 3.5mm stereo
- Cable length: 2m

Headphone	AA-2126
Driver Diameter	40mm
Frequency Range	20Hz - 20kHz
Sensitivity	114dB ± 3dB
Impedance	32Ohm
Max. Input power	30mW
Microphone	
Mic. Diameter	6.0 x 5.0mm
Sensitivity	-38dB ± 3dB
Directivity	Omnidirectional

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2126	\$49.95	\$44.90	\$39.90

USB Gaming Keyboard

This gaming keyboard provides optimum performance and accuracy when playing high intensity games. The tangle-free braided cable keeps things organized and prevents kinks, tangles, and snags. Simply immerse yourself in your favourite game!



- Braided cable
- 12 multimedia keys
- Dimensions: 450(L) x 195(W) x 30(H)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5130	\$49.95	\$44.90	\$39.90

Gaming Console Tool Kit

Everything you need to get into your console and accessories. It includes tools for pretty much every console and handheld on the market today - Wii, X-Box, Playstation etc. Carry case included.



- Contents:
- PH000, PH00, PH0, PH1
 - Slotted 2, 3, 4mm
 - T4, T5, T6, T8, T10, T15, T20, TA2, TA2.3
 - TRI00, TRI0, TRI1
 - Nintendo & X-Box security bits, X-Box opening tool
 - Stainless tweezers, ratchet handle and adaptor

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2109	\$29.95	\$26.95	\$23.95

MICE

Budget 3-Button Optical Mouse

A low profile, ergonomic 3-button optical mouse. Simple and easy to use.

- Resolution: 1000 DPI
- Zoom-in, zoom-out; page up, page down
- Plug and play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5243	\$9.95	\$8.75	\$7.75

USB 5-Button Optical Mouse

All the normal mouse functions - left and right click, scrolling, plus forward, back and quick-launch button as well as a scroll wheel. Ergonomically shaped for fatigue-free use.

- Resolution: 800/1200/1600
- Plug and play - no drivers required
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5241	\$17.95	\$15.95	\$14.35

5 Button Wireless Optical Mouse

A compact, 5 button wireless optical mouse with nano dongle that tucks away neatly into the base. Great for travellers.

- 2.4GHz Wireless
- 1000/1500/2000 DPI conversion with indicator
- 4th and 5th buttons can be custom assigned functions after driver installation
- Multi-stage power saving modes
- Plug and play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5248	\$24.95	\$22.35	\$19.70

See page 358 for Wireless Air Mouse

Computer Mouse Pad

Great tracking for all mice types. Made from a blend of Polyester and Spandex and only 2mm thick.

- Non-skid surface holds the mat in place
- Black in colour
- Dimensions: 260(W) x 200(H) x 2(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5099	\$4.95	\$4.45	\$3.95

USB HUBS

A range of USB 2.0 hubs for any budget or application. Powered by the USB port and all include a lead.

USB 2.0 4 Port Star Hub

Star shaped 4 port hub. Compact design to reduce desk clutter with power indication LED.

- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 50(W) x 50(L) x 15(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0 4 Port	XC-4302	\$12.95	\$11.35	\$10.35

USB 2.0 Mini 4 Port Hub

Add up to four USB peripherals without loss of speed.

- 5VDC 2A required for powered option
- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 83(W) x 16(H) x 32(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0 4 Port	XC-4864	\$19.95	\$17.70	\$15.70

USB 3.0 4 Port Mini Hub

This portable and easy to use 4 Port USB 3.0 Hub offers 10 times faster transfer speed than USB 2.0 devices. Ideal for home, office and travel.

Specifications	XC-4952
Interface	USB 3.0
Transfer Rate	up to 80Mbps
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
Dimensions	61(L) x 61(W) x 10(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 4 Port	XC-4952	\$29.95	\$26.95	\$23.70

USB 3.0 Type C 4 Port Hub

Latest USB 3.0 Type C connector for the new generation MacBook® and PCs. This 4 port hub expands your computer's connectivity and makes the most of the lightning fast speed. All 4 ports support USB 3.0 Super Speed and at the same time are downward compatible with USB 2.0. Also includes a USB 2.0 Micro B socket for additional power if required.

Specifications	XC-4306
Interface	USB 3.0 Type C
Transfer Rate	up to 80Mbps
Dimensions	68(H) x 64(W) x 13(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
XC-4306		\$39.95	\$35.90	\$31.90

USB 2.0 10 Port USB Hub

Ten, count 'em, ten USB ports. That should be enough for anyone. The two position switch turns all ports on, or only ports 7 - 10. This means you can turn off non-essential peripherals while maintaining power to others - LED indicators tell you which group is live. 5VDC 3A plugpack included for powered operation.

- USB 2.0
- USB or mains powered
- Key holes for wall mounting
- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.2+, Linux
- Dimensions: 172(L) x 36(W) x 27(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0 10 Port	XC-4946	\$59.95	\$53.95	\$47.95

MEMORY CARD READERS

Compact USB 2.0 Multi-Card Reader

Designed for convenience this USB multi-card reader is small enough to attach to your keyring. Despite its size it accepts a wide variety of popular formats. To use simply fold out the USB adaptor, fold back for easy storage or travel.

- Fold away USB adaptor
- Supported card formats: MS/MS Pro Duo/ M2/T-Flash/MicroSD/SDHC/SD/MMC/Mini SD
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 40(L) x 34(W) x 15(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4749	\$12.95	\$11.35	\$10.35

USB 3.0 SDXC/microSD Memory Card Reader

Transfer data between your PC and SD/microSD memory cards with this USB 3.0 card reader which has the ability to read both card slots simultaneously. Powers directly from your USB port and is backwards compatible with SDHC and all older versions of the SD/microSD card formats.



SD SLOT: Secure Digital, Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD Pro, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, OV-RS MMC, High Speed MMC I RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC **microSD Slot:** microSD (TransFlash), microSDHC

Specifications	XC-4752
Interface	USB 3.0
Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB microSD
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac® OS X 10.0+, Linux
Dimensions	79(L) x 35(W) x 9(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4752	\$19.95	\$17.70	\$15.70

COMPUTER & MULTIMEDIA

MEMORY CARD READERS & MEDIA

MEMORY CARD READERS (CONTINUED)

All-in-1 USB 2.0 Card Reader

This USB card reader reads most memory cards in use today, including:

SD, MicroSD, SD Ultra II, SD Extreme III, MMC, MMC II, MMC 4.0, RS-MMC, HS RS-MMC, MMC Micro, M2, MS, MS Pro, MS Pro Duo, MS Extreme Pro, MS Extreme III Pro, MS Ultra II Pro, HS MS-MG Pro HS MS-MG Pro Duo, MS ROM, MS Select, XD, XD(M), XD(H), CF I & II, CF Ultra II, CF Extreme III, CF Extreme, HS CF & Micro-drive. USB cable included

- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Size: 68(L) x 40(W) x 13(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4926	\$19.95	\$17.70	\$15.70

USB 3.0 Memory Card Reader

This card reader accommodates all the mainstream memory cards including the SDXC and CF600x standards.

- Includes 1 x USB 3.0 cable
- Hot swappable
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® X 10.0+, Linux
- Dimensions: 86(L) x 58(W) x 21(D)mm

CF Slot: Compact Flash Type I/II, CF Elite Pro, CF PRO I, CF PRO II, CF Turbo, CF Ultima I, CF Ultima II, Extreme CF, Extreme III CF, HS CF, Ultra II CF
MS Slot: MS, MS DUO, MS PRO, MS PRO DUO, MS MagicGate, MS MagicGate PRO, MS MagicGate DUO, MS MagicGate PRO DUO, Extreme MS PRO, Extreme III MS PRO, Ultra II MS PRO, HS MS MagicGate PRO HS MS MagicGate PRO DUO, MS ROM, MS Select
SD Slot: SecureDigital (SD), Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD Pro, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, DV-RS MMC, High Speed MMC/ RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC
Micro SD / M2 Slot: MicroSD (TransFlash), microSDHC / M2

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4757	\$39.95	\$35.90	\$31.90

USB 3.0 Type-C Multi Card Reader

Latest USB 3.0 Type-C connector for the new generation MacBook® and PCs. This multi-card reader expands your computer's connectivity and makes the most of the lightning fast speed. Supports SDXC, SDHC, microSD and CompactFlash card slots.

Supported Memory Cards:

SD Slot: SecureDigital (SD), Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD PRO, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, DV-RS MMC, High Speed MMC / RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC
microSD Slot: microSD (TransFlash), microSDHC, microSDXC
CompactFlash Slot: CompactFlash Type I/II, CF Elite Pro, CF Pro I, CF Pro II, CF Turbo, CF Ultima I, CF Ultima II, Extreme CF, Extreme III CF, HS CF, Ultra II CF

Specifications	XC-4751
Interface	USB 3.0 Type-C
Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB microSD, 256GB CompactFlash
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.4+, Linux
Dimensions	69(L) x 63(W) x 14(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Type-C	XC-4751	\$39.95	\$35.90	\$31.90

Wi-Fi Multi Card & USB Reader

This clever device creates a secure Wi-Fi hotspot so you can share and transfer files from your memory cards and USB storage devices wirelessly between your computers, Tablets, and Smartphones. It has an internal rechargeable battery so you can use it for up to 3 hours without power. If you connect a 3G USB dongle the device will become a 3G router allowing internet access for Wi-Fi devices. It has been tested on HDD up to 1TB. Supplied with USB to Micro-B USB power/charge cable. Up to 20m Wi-Fi range

- Simultaneously read/write - CF, SD, MS, M2, TF and microSD
- Simultaneously read/write to 3 USB devices
- Up to 8 users can access simultaneously
- 1000mAh rechargeable battery for up to 3 hours wireless use
- Dimensions: 105mm x 65mm x 11mm

	Cat.	Qty 1+
Wi-Fi	YN-8426	\$59.95



MEDIA - SD CARDS & FLASH DRIVES

microSD Memory Cards with SD Adaptor

This microSD card is fully compliant with SD spec V1.1 and offer high write speed, lower power consumption, and superior performance. Supplied with a standard SD adaptor so you can use them in a standard card slot or reader.

- Class 4 unless stated
- Weight: 2g
- Call for latest pricing.
- Size: 15(L) x 11(W) x 1(H)mm

Transcend®

Contact us for latest pricing



	Cat.	Qty 1+
2GB	XC-4998	\$11.95

Class 10 microSDHC Card with SD Adaptor

Blazing fast Class 10 microSDHC cards with guaranteed 10MB/s read and write speeds. Ideal for full HD video recording. Includes SD card adaptor.

- Speed: Class 10 (UHS - 1)
- Includes SD adaptor for normal SD card slots

Transcend®



		Cat.	Qty 1+
8GB	Class 10	XC-4983	\$19.95
16GB	Class 10 (UHS-1)	XC-4989	\$29.95
32GB	Class 10 (UHS-1)	XC-4992	\$49.95
64GB	Class 10 (UHS-1)	XC-4993	\$94.95

TECH TALK!

SPEED CLASS RATING

Speed class ratings of miniSD, microSD, SD & SDHC cards indicates the minimum performance to record video.

Class	Min. Performance	Suitable For
Class 2	2MB/sec	SD video recording
Class 4	4MB/sec	HD video recording
Class 6	6MB/sec	Up to HD video recording
Class 10	10MB/sec	Full HD or consecutive HD still capture

OTG USB Flash Drives

USB Flash Drive features OTG (On-the-Go) to transfer data from your laptop or PC to your Android® device and vice versa. Extremely lightweight, and feature a USB connector on one end and a micro USB connector on the opposite end.

- Dimensions: 28.1(L) x 12.25(W) x 4.5(D)mm

Transcend®

Smartphone not included



	Cat.	Qty 1+
16GB	XC-5622	\$34.95
32GB	XC-5624	\$54.95

USB Flash Drives

High speed USB 2.0 flash drives for conveniently backing up data and quickly transferring files. They feature secure data protection and high reliability.

- Plug and Play
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



	Cat.	Qty 1+
8GB	XC-5616	\$10.95
16GB	XC-5617	\$21.95
32GB	XC-5618	\$34.95
64GB	XC-5619	\$59.95

USB Flash Drive with Lightning® Connector

Using this device you can expand the storage of your existing iPhone®, iPad® or iPod®. It allows you to store, organise, and transport any type of files. Simply just drag-and-drop the files right from your computer. It works with all iPhone®, iPad® and iPod® with Lightning® connectors.

- Free app available on iTunes®
- 4GB microSD card included.
- Expandable up to a 128GB microSD card
- Dimensions: 65(L) x 27(W) x 7(D)mm



Made for iPod iPhone iPad



	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-5628	\$84.95	\$76.50	\$67.95

MEDIA - DVDS

Verbatim DVD 8.5GB Dual Layer 8x

Verbatim DataLifePlus (AZO)

- 8.5 Gigabytes of storage capacity on a single sided disc. No need to flip the disc
- Advanced AZO recording dye optimizes performance
- Largest compatible DVD back-up & data archiving format
- Record 4 hours of DVD quality television and video (16 hours VHS quality)
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single DVD+R	XC-4744	\$3.95
Single DVD-R	XC-4743	\$3.95

Verbatim DVD-RW 4.7GB Single 2x

DatalifePlus (SERL) DVD-RW4.7GB Jewel Case Singles 4x

- 2x DVD-RW recording speed (version 1.2)
- Re-recordable up to 1,000 times
- Super Eutectic Recording Layer optimises read/write performance and durability
- Superior Archival Life
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single	XC-4732	\$2.25

Verbatim DVD+RW 4.7GB Single 4x

Verbatim DataLifePlus (SERL) DVD+RW Jewel Case Singles 4x

- Certified by leading drive manufacturers
- Largest compatible DVD back-up and data archiving format
- Super Eutectic Recording Layer optimises read/write performance and durability
- Record 4 hours of DVD quality television and video (16 hours of VHS quality)
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single	XC-4734	\$2.30

Verbatim DVD+R 4.7GB 16x

Verbatim DataLifePlus (Azo) DVD+R Jewel Case Singles 16x

- Compatible with 1X-16X DVD+R Hardware
- Record 4.7GB/ 120 minutes of data & video in approx 5 minutes
- Advanced AZO recording dye optimises read/write performance
- Ideal for recording up to 2 hours of DVD quality home movies and video clips
- Archive and back up, up to 4.7GB of important data
- Compatible with 16X DVD+R drives from Sony, Dell, HP, Compaq and others
- Read compatible with most DVD-ROM drives & DVD video players
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single	XC-4733	\$1.35

Verbatim DataLifePlus (Azo) DVD-R 4.7GB Jewel Case Singles 16x

- Compatible with up to 16X DVD-R Hardware
- Advanced Azo recording dye optimizes read/write performance
- Ideal for recording up to 2 hours of DVD quality home movies
- Archive and back up, up to 4.7GB of important data
- Compatible with 16X DVD-R drives from Pioneer, Apple, Sony, Panasonic and others
- Read compatible with most DVD-ROM drives and DVD video players
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single	XC-4731	\$1.40

Verbatim DVD+R DL 8.5GB 8x Spindle 10 Pack

Double the storage capacity with two AZO recording layers on a single-sided disc - no need to turn the disc over.

- Huge 8.5GB capacity - records 240 mins of DVD quality television and video (960 mins of VHS quality)
- Supported by high speed Double Layer writers, up to 8X speed
- Compatible with DVD+R DL drives from leading manufacturers
- Ideal for archiving home movies
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
10 Pack	XC-4746	\$32.95

Verbatim DVD 4.7GB Inkjet Printable 50 Spindle 16x

- 1X to 16X DVD recording speed
- Full-colour, high resolution, photo-quality printing
- Superior ink absorption
- Crisp & clear text reproduction
- Excellent ink drying time
- Compatible with inkjet disc printers from Primera, Microboards, Epson and others.
- Advanced AZO recording dye optimises read/write performance
- Superior Archival Life
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
50 Disks DVD-R	XC-4738	\$39.95
50 Disks DVD+R	XC-4745	\$39.95

MEDIA - BLU-RAY

Verbatim Blu-Ray Discs 25GB Single

Blu-ray discs are designed for storing and playing back high definition video but the 25GB discs are also great for backing up valuable data. XC-4748 is rewriteable so you have extra flexibility in the event of burning the wrong data or for general re-use. High quality Verbatim super hard coat gives extra protection for general use. Case included.



Contact us for latest pricing

	Cat.	Qty 1+
BD-R 4x	XC-4747	\$5.20
BD-RE 2x	XC-4748	\$7.95

MEDIA - CD

Verbatim Datalife 80min 700MB CD-R Jewel Case Singles 52x

- Approved high speed 52X recording
- Compatible with leading manufacturers CD-R drives
- Ideal surface for personalising CD with marker or labels
- Long archival life
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
Single	XC-4707	\$1.25

Verbatim DataLifePlus CD-R 80min/700MB Inkjet Printable 50 Pack Spindle 52x

- Photo quality inkjet printable
- 52x recording
- Bright white surface
- Print pictures and text directly on the disc
- Compatible with direct CD/DVD inkjet printers
- Limited Lifetime Guarantee



Contact us for latest pricing

	Cat.	Qty 1+
50 Disks	XC-4718	\$29.95

SPECIAL NOTE RE MEDIA PRICES

When the ink dries at the catalogue printers, the prices are set for the life of the catalogue - 12 months. The price of media (ie. SD cards, flash drives, DVD etc) rarely stays fixed for more than a few months. If you think some of the prices shown on these pages are a bit high, don't be dismayed. The prices have probably changed - downwards! Check with your local store or online for the latest price.

STORAGE

Slimline CD/DVD Mailing Sleeve

PACK OF 10

Mail your precious CDs without fear of damage with this flexible clam style protector. The mailer has a clear window and centering spigot to securely hold the CD in place. Measures 125mm x just 4.5mm thick which won't crack and break like the average jewel case.

- Colour is opaque

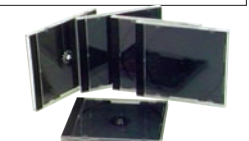


	Cat.	Qty 1+	Qty 4+	Qty 10+
Pkt 10	AR-1480	\$5.95	\$5.25	\$4.75

CD/DVD Jewel Cases For Single Disk

PACK OF 5

Replacements CD case for those that break or wear out.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Pkt 5	AR-1470	\$3.50	\$3.15	\$2.75

COMPUTER & MULTIMEDIA

HDD ENCLOSURES & CABLES

LAPTOP COOLING - USB POWERED

Dual Fan Notebook Cooling Fan

Prevents your notebook from overheating on your lap or desk. Features a double 140mm fan and 2 USB ports. It is super silent and you will hardly notice it is there. Incredibly simple to use, just plug into your USB port and away you go! Also includes a push button on and off switch.

- Unique non slip design
- Rated voltage: 5VDC
- Dimensions: 365(L) x 295(W) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Dual Fans	XC-5211	\$17.95	\$16.15	\$14.35

Universal CPU Cooler with PWM Fan

This low noise top flow design cooler contains a silent 80mm fan with an intelligent PWM (Pulse Width Modulation) control. It is compatible with most widely used Intel® and AMD motherboard CPU socket types, and has the cooling power to make sure your CPU runs smoothly. Its compact size makes it ideal for HTPC and small chassis PCs. Mounting kit provided.

Compatibility:

Intel® Socket: 775, 1155, 1156, Pentium® D / Pentium® 4 / Celeron® D, Pentium Dual-Core, Core 2 Quad/Core 2 Duo, Core i3/i5
AMD Socket: 754/939/AM2/AM2+/AM3/AM3+/FM1, CPU up to TDP 82W, Athlon 64 X2, Athlon 64, Athlon II, Opteron, Sempron

Specifications	YX-2588
Bearing	Hydro Dynamic Bearing
Fan Speed	900-2200RPM
Air flow	30.5 CFM / 51.85 m³/h
Noise Level	10-22.5dBA
Current	0.13A
Voltage	12VDC
Power Consumption	1.56W
Max Cooling Performance	82W
Connector	4 pin PWM
Cable Length	250mm
Fan Diameter	80mm
Dimensions	120(L) x 96(W) x 66(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
CPU Cooler	YX-2588	\$24.95	\$22.50	\$19.95

HARD DRIVE POWER CABLES

Serial ATA / SATA / eSATA Power Cables

A range of SATA and eSATA data/power cables for use with personal computers and external serial ATA devices.

4 PIN POWER SPLITTER CABLE

Standard 4 pin power splitter for PC
• 1 x HDD plug to 2 x HDD sockets

Cat. PL-0750



SERIAL ATA LEAD 7 PIN PLUG

Use this 7pin cable to transfer data between your Serial ATA hard drive and serial ATA interface, at rates up to 150Mbps. Thinner, smaller and more versatile than the Parallel ATA Standard.

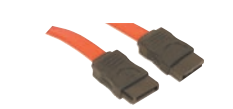
Cat. PL-0978



7 PIN TO 7 PIN SATA

Colour: Red
Length: 1 metre

Cat. PL-0980



STRAIGHT TO RIGHT ANGLE SATA

Colour: Red
Length: 1 metre

Cat. PL-0981



HDD POWER TO 2 X SATA

Power two SATA devices from one 4-pin male Molex connector.
Length: 200mm

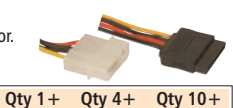
Cat. PL-0759



HDD POWER TO 1 X SATA

Power a SATA devices from a 4-pin male Molex connector.
Length: 200mm

Cat. PL-0758



	Cat.	Qty 1+	Qty 4+	Qty 10+
HDD power to 2 HDD Sockets	PL-0750	\$4.95	\$4.45	\$3.90
SATA to SATA	PL-0978	\$5.95	\$5.25	\$4.75
SATA to SATA	PL-0980	\$7.95	\$6.95	\$6.25
SATA RA to SATA	PL-0981	\$7.95	\$6.95	\$6.25
HDD power to 2 x SATA power	PL-0759	\$7.95	\$6.95	\$6.25
HDD Power to SATA	PL-0758	\$5.95	\$5.25	\$4.75

EXTERNAL HDD ENCLOSURES

2.5" USB 2.0 External HDD Case

Instantly add gigabytes of storage to your computer or move large amounts of data from one computer to another. This external hard drive case has a USB 2.0 interface and will accept a standard 2.5" hard drive or SSD. The precision case does away with the awkward ribbon cable and the hard drive easily connects straight onto the PCB mounted connector. When fitted with a hard drive, this unit makes an ideal backup device or could even be used as a portable digital image storage unit.

- Interface: USB 2.0
- HDD Size: up to 2TB Hard Drive
- Transfer Rate: up to 30Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.4+, Linux
- Dimensions: 126(L) x 76(W) x 12(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4681	\$19.95	\$17.70	\$15.70

2.5" USB 3.0 SATA HDD Enclosure

Protect and transport your valuable data with this hard disk drive(HDD) case. The aluminium case accommodates a standard 2.5" HDD (up to 2TB capacity) and features a micro-B USB 3.0 socket. Experience ultra fast data transfer speeds up to 10 times faster than USB 2.0. The blue LED on the rear of the unit indicates when data is transferring. Super fast and easy installation – simply open the cover, connect the drive and secure the cover back in place. Also includes a lead to connect the drive to your computer via the USB port. A good solution for transferring data between multiple users or devices quickly.

- Interface: USB 3.0
- HDD Size: up to 2TB Hard Drive
- Transfer Rate: up to 80Mbps
- Dimensions: 130(L) x 80(W) x 13(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4686	\$29.95	\$26.95	\$23.95

3.5" USB 2.0 External HDD Case

Accommodates a 3.5" SATA drive up to 3TB in storage capacity. Lightweight aluminium case for increased portability.

- USB 2.0 transfer rate up to 480Mbps
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 183(D) x 117(W) x 31(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4669	\$44.95	\$40.45	\$35.90

3.5" USB 3.0 SATA HDD Enclosure

Backup your data faster and carry it in style with this slick, black external HDD enclosure. Wait less do more, a USB 3.0 connection transfers data between computer and device up to ten times faster than a USB 2.0 connection. SATA I/II/III support means you can take advantage of the latest HDDs on the market or make use of your old, disused SATA HDDs. Installation is easy, just two screws to remove the back panel and no cables inside. Supplied with a desk stand and power supply.

- Plug 'n' Play
- Hot swappable
- For 3.5" HDDs only (not included)
- Supports SATA I/II/III
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4667	\$59.95	\$53.95	\$47.95

CLEANING SYSTEMS

CD/VCD/DVD Lens Cleaner

If you experience jumping, loss of quality or disc failure, then it's probably because your lens are dirty. This easy to use laser lens cleaner not only cleans your CD or DVD equipment, but it also shows a short animation while you wait. Supplied in a jewel case.



	Cat	Qty 1+	Qty 4+	Qty 10+
	AR-1416	\$11.95	\$10.70	\$9.50

HDD ADAPTORS

1TB 2.5" Internal Notebook Hard Drive

A 5200RPM 1TB internal hard drive ideal for laptops, network attached stored devices, game consoles or, media players. It uses 500GB per platter technology and has superior energy efficiency as well as improved acoustic performance at a maximum of 19dB in idle mode and 24dB during seek operations.



NEW
2016

• SATA3

See page 410 for a 2TB Surveillance HDD

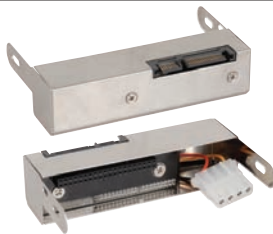


Specifications	XC-5680	Power Requirements	XC-5680
Rotational speed	5200RPM	Voltage	5V
Transfer Rate to Host	3Gbps	Spin up (start) Power	4.5 watts
Idle acoustics	19dB	Seek Power	1.85 watts
Seek acoustics	24dB	Read/Write Power	1.5 watts
Buffer Cache	8MB	Low Power Idle	0.55 watts
Dimensions	69.85(W) x 100(D) x 9.5(H)mm	Standby Power	0.18 watts
Weight	112g	Sleep Power	0.15 watts

	Cat.	Qty 1+
1TB 2.5" SATA	XC-5680	\$119.00

IDE to SATA HDD Upgrade Panel

Clip this onto the end of an old 3.5" IDE hard drive and the drive can then be used in our SATA HDD docks or inside personal computers that lack IDE data and power connectors. A simple method for upgrading IDE drives.



- Dimensions: 105(W) x 25(H) x 62(D)mm
- Compatible with: Maxtor, Samsung, IBM, Hitachi, Seagate Hard drives

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4970	\$19.95	\$17.70	\$15.70

SATA to USB 3.0 Adaptor

If you are a downloading enthusiast or an IT professional who has accumulated a number of hard drives over the years and want a simple way to access them temporarily this adaptor is the perfect tool. When used with most enclosures and adaptors, SATA hard drives and solid state drives are limited by the speed of USB 2.0. This new USB 3.0 adaptor will take full advantage of the max speed of SATA (3.0Gbps). Transfer files or clone drives in a fraction of the time. Please note your PC must have a USB 3.0 port to support these speeds. Combine with the XC-4149 3.5" HDD enclosure (sold separately) for an easy, convenient backup solution.



- Fully compliant with USB 3.0 specifications
- Backward compatible with USB 2.0
- Includes USB 3.0 cable and mains adaptor
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 71(L) x 21(W) x 13(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4149	\$39.95	\$35.90	\$31.90

SATA/IDE to USB 2.0 Hard Drive Adaptor

Perfect tool to backup, or transfer large amount of data from one drive to another. Manual hard drive replacement is often labourious and time consuming. This IDE / SATA to USB 2.0 adaptor makes the job whole lot easier and faster with this set of cables designed to connect your SATA or IDE drive external through a USB 2.0 adaptor. It supports 2.5", 3.5" SATA and IDE devices and operates with one IDE and one SATA HDD simultaneously.



Package includes:
1 x USB2.0 to IDE+SATA converter
1 x 4Pin Power cable
1 x USB 2.0 cable
1 x 12V/2A power adaptor

- USB version 2.0 compliant
- SATA II version 1.0a compliant
- USB Mass Storage Class Bulk-Only Transport Specification Compliant
- Dual-Head IDE Connector (40pin and 44pin) plus one SATA II connector
- HDD Support: IDE 2.5" HDD, IDE 3.5" HDD, SATA 2.5" HDD, SATA 3.5" HDD, IDE 5.25" CD/DVD Drives
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- USB cable length: 800mm
- Power Adaptor cable length: 1.5m
- Dimensions: 85(L) x 65(W) x 20(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4150	\$44.95	\$40.45	\$35.90

DOCKING STATIONS

USB 2.0 External SATA HDD Docking Station

Allows you to dock any 2.5" or 3.5" SATA hard drive for easy transfer of files. Just slide the hard drive into the dock and it will mount as an available volume on your Windows® or Mac® operating system. A great tool for those who regularly clone drives or need to easily swap or check the contents of SATA drives. Supports hard drive hot swapping.



★
BEST
SELLER

- Up to 480Mbps transfer rate with USB 2.0
- Up to 3Gb/s transfer rate with eSATA
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+, Linux
- Dimensions: 165(W) x 110(D) x 102(H)mm

Hard Drive not included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4690	\$44.95	\$40.45	\$35.95

USB 3.0 SATA 2.5"/3.5" HDD Dock

A 2.5"/3.5" SATA dock for USB 3.0 enabled desktop PCs and laptops. USB 3.0 boasts theoretical speeds of up to 4.8Gbps, that's ten times faster than its USB 2.0 predecessor. Such an exponential improvement makes buying USB 3.0 transfer devices such as docks and external drives a no-brainer. SATA docks are particularly useful for computer technicians, IT professionals and those of you who download a lot and need to swap between drives frequently. With USB 3.0 transferring gigabytes of files around will be significantly quicker so you can get back to what you love doing most, downloading more files.



Hard Drive not included

- Backwards compatible with USB 2.0
- USB 3.0 cable included
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
- Dimensions: 145(L) x 94(W) x 82(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4696	\$49.95	\$44.90	\$39.90

USB 3.0 CloudDock with WebDav/FTP/Samba/BitTorrent

Much more than a simple hard drive dock this unit doubles as a NAS with remote login via the web. Just connect it to your router and access the device IP address to begin setting up. The device can be run as a Samba server, webdav server, ftp server or even a media server. With webdav mode enabled you could use an android or iOS app to remotely organise files on your drive from anywhere. They can then be accessed directly using the ftp server functionality. The media server setting allows you to share a photo, music or video folder. Last but not least, you can also add torrents to download directly to the docked drive. Download queue priorities can be set, you can then be auto-mailed when a torrent is complete.



- Supports 3.5/2.5 inch SATA hard drives
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
- Dimensions: 134(L) x 114(W) x 55(H)mm

Hard Drive not included

Note: Apps are not included with the device. There are several free webdav apps on Google play store and apple iTunes. Search Webdav.

	Cat.	Qty 1+
	XC-4691	\$59.95

USB 3.0 Dual 2.5/3.5" SATA HDD Docking Station

Hard drive docking stations provide PC users with the ability to quickly and easily backup valuable data, access old drives, clone, format and debug disk problems. They're a great tool to have around the home or office. This unit provides two SATA docking ports that can accommodate either two 3.5 or 2.5 inch SATA drives or one of each depending on your application. It is USB 3.0 ready so all your disk operations will perform up to ten times faster than on older USB 2.0 docks. High speeds and the convenience of dual docks means less time backing up.



- Interface: USB 3.0
- Transfer Rate: up to 80Mbps
- HDD Size: 3.5" - Up to 6TB, 2.5" - Up to 2TB
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
- Dimensions: 130(W) x 61(H) x 103(D)mm



Hard Drive not included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4697	\$69.95	\$62.95	\$55.95

COMPUTER & MULTIMEDIA

LAPTOP POWER SUPPLY REPLACEMENTS

MAINS LAPTOP POWER SUPPLIES

Buying an extra power supply saves the hassle of taking the power supply everywhere you take your laptop. Keep one at the office and one at home. The original power supply on your laptop may have failed, so get a replacement at a fraction of the cost of a genuine part. There's a model compatible with most laptops or netbooks on the market. See our website for compatibility charts.

- **Manual Type:** switch the output voltage to suit your laptop
- **Automatic Type:** models switch voltage automatically depending on the connector used

Some models display the voltage on a LED or LCD display.

- All models feature short circuit and overload protection
- 1 Year warranty on all laptop supplies



40W Netbook - Automatic Cat MP-3477

Specifications	MP-3477
Input voltage	110 - 240VAC
Power output	40W
Output voltages	12 - 19VDC
Output voltage selection	Automatic
Output current	3A
Plugs	7
Dimensions	172(L) x 69(W) x 40(H)mm



60W Universal Type-C Automatic Cat MP-3340

This 60-watt adaptor features both a USB 2.0 port and USB Type-C port. Suitable for MacBook® and Google Chromebook™.

Specifications	MP-3340
Input voltage	100 - 240VAC
Power output	60W
Output voltages	5/12/14/15/20VDC
USB Output	5VDC @ 2A
Output voltage selection	Automatic
Output current	3A
Dimensions	112(L) x 69(W) x 16(H)mm



65W Universal - Slimline Suits Ultrabook™ Cat MP-3321

Features USB output for charging USB devices.

Specifications	MP-3321
Input voltage	100 - 240VAC
Power output	65W
Output voltage	19VDC / 5VDC (USB)
Output current	3.15A / 1A (USB) Output
Plugs	8
Dimensions	113(L) x 56(W) x 15(H)mm



90W Universal - Manual Cat MP-3476

Specifications	MP-3476
Input voltage	110 - 240VAC
Power output	90W
Output voltages	12 - 22VDC
Output voltage selection	Manual
Output current	6A
Plugs	9
Dimensions	150(L) x 58(W) x 37(H)mm



Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
40W	Auto	MP-3477	\$54.95	\$49.45	\$43.95
60W NEW	Auto	MP-3340	\$89.95	\$80.95	\$71.95
65W	Fixed - Slim	MP-3321	\$59.95	\$53.95	\$47.95
90W	Manual	MP-3476	\$74.95	\$67.50	\$59.95

TECH TALK!

SELECTION GUIDE FOR LAPTOP POWER SUPPLIES

Looking at our large range of laptop power supplies, it might be a little overwhelming when trying to decide which is the best one to choose, but really it's quite simple. The easiest way to work out what you need it to look at the rating label on your original laptop power supply, and take note of the OUTPUT voltage and current (for example, 20V and 3.25A). Now multiply these together to get the POWER rating you need (in our example, 20 x 3.25 = 65 Watts). Then you just need to select a model that has an equal or higher power rating to your original power supply, in our given example this would be MP-3321 65W Universal Slimline Laptop Power Supply. Then it's just a matter of checking that the selected model is compatible with your brand of laptop, which can be done by looking on our website.

But if all this is too confusing - never fear, just bring your laptop and the old power supply into your nearest store and our friendly staff will assist.

90W Universal - Automatic Cat MP-3326

Features USB output for charging USB devices.

Specifications	MP-3326
Input voltage	100-240VAC
Power output	90W
Output voltages	15/16VDC @ 4.74A, 19VDC @ 4.2A, 5VDC @ 2.1A (USB Power)
Output voltage selection	Automatic
Plugs	11
Dimensions	126(L) x 55(W) x 31(H)mm



90W Universal - Slimline Cat MP-3332

Features a USB port so you can charge your Smartphone, Tablet and other USB powered gadgets without the need to carry a separate USB power supply.

Specifications	MP-3332
Input voltage	100 - 240VAC
Power output	90W
Output voltages	19VDC / 5VDC (USB)
Output current	4.4A / 2.1A (USB Output)
Plugs	11
Dimensions	110(L) x 70(W) x 16(H)mm



120W Universal - Slimline Cat MP-3329

Specifications	MP-3329
Input voltage	100 - 240VAC
Power output	120W
Output voltages	19VDC / 5VDC (USB)
Output current	5.7A / 2.1A (USB Output)
Plugs	7
Dimensions	123(L) x 75(W) x 19(H)mm



144W Universal - Manual Cat MP-3471

Features USB output for charging USB devices.

Specifications	MP-3471
Input voltage	100 - 240VAC
Power output	144W
Output voltages/ current	15/16 @ 8.5A, 18/19 @ 8.0A, 20 @ 7.5A, 22 @ 6.5A, 24 @ 6.0A
Output voltage selection	USB 5V 1A Manual
Plugs	9
Dimensions	180(L) x 63(W) x 40(H)mm



Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
90W	Auto	MP-3326	\$84.95	\$76.45	\$67.95
90W	Fixed - Slim	MP-3332	\$89.95	\$80.95	\$71.95
120W	Fixed - Slim	MP-3329	\$109.00	\$97.95	\$86.95
144W	Manual	MP-3471	\$119.00	\$106.95	\$94.95

IN-CAR LAPTOP POWER SUPPLIES

Keep your laptop or netbook charged on the road. Models to suit most of the mini computers on the market. Check website for compatibility.

90W Automatic Mini Car Laptop Power Supply

This ultra-compact laptop charger achieves its small size by storing its electronics inside the lighter plug. It is supplied with 12 of the most common DC connectors and the output voltage is automatically selected when you attach the plug that fits your computer. Will supply up to 90 watts output power.

Specifications	MP-3334
Input Voltage	12VDC
Output Voltage	14.5 - 20VDC
Output Current	3 - 4.7A
Power Output	90W
Dimensions	85(L) x 26(Dia)mm



Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
90W	Auto	MP-3334	\$59.95	\$53.95	\$47.90

150W - Manual Cat. MP-3472

Specifications	MP-3472
Input voltage	12VDC
Power output	150W
Output voltages	15, 16, 18, 19, 20, 22, 24VDC
Output voltage selection	Manual
Output current	6A
Plugs	9
Dimensions	115(L) x 60(W) x 35(H)mm



Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
150W	Manual	MP-3472	\$74.95	\$67.50	\$59.95

UNINTERRUPTIBLE POWER SUPPLIES (UPS) - AC

UPS BACKUP TIME TEST RESULTS

Maximum Load			Backup Mode		Backup Time - Typical			
Cat No.	VA	W	Internal SLA Battery	Output Waveform	Transfer Time (ms)	Small PC (65W-70W)	Medium PC and LCD Monitor (130W-140W)	Large PC plus LCD Monitor (190W-210W)
MP-5224	600	300	12V/7Ah	Modified Sine Wave	<10	31 mins	11 mins	4.5 mins
MP-5214	650	360	12V/7Ah	Modified Sine Wave	<10	25 mins	9 mins	5 mins
MP-5216	1500	750	12V/9Ah	Modified Sine Wave	<10	94 mins	49 mins	31 mins
MP-5205	390	650	12V/7Ah	Modified Sine Wave	<10	25 mins	9 mins	5 mins
MP-5207	1500	900	12V/9Ah	Modified Sine Wave	<10	94 mins	49 mins	31 mins

Line Interactive UPS - 600VA

Keep your devices running when the grid goes down or give yourself enough time to power down safely. This self contained UPS is ideal for the home PC, point of sale machines, or workstations and peripherals. Features include intelligent CPU control, highly synchronous transfer (less than 6ms), automatic battery charging in UPS off mode, surge protection, voltage overload/low voltage protection and much more. There is a USB socket for connecting to your PC and software is provided to enable automated shut down, as well as RJ12 sockets for telephone protection.

Specifications	MP-5224
Rating	600VA 300W
SLA Battery	12V/7.0Ah battery
Supply Voltage / Output Voltage	100-240VAC / 100-240VAC
Backup time	Up to 5 mins
Switch over time	< 6ms
Noise	< 45db (at 1 metre)
Recharge time	90% capacity after 8 hours
Output waveform	Sine Wave (Mains), Modified Sine Wave (Battery)
Power outlets	3 UPS, 3 Mains (all surge protected)
USB Output / RJ12 input-Output	1 / 1
Software Compatibility	Windows 8.1, 8, 7, Vista, XP 2000, Linux
Dimensions	280(W) x 185(D) x 95(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
300W - 600VA	MP-5224	\$139.00	\$124.95	\$110.95

Line Interactive UPS with USB - 650VA & 1500VA

Protect your valuable computer system and critical data from black-outs, brown-outs and power surges. Brown-outs and power failures can play havoc with sensitive computer systems and cause significant data corruption, or in a worst-case scenario, you could lose irreplaceable data.

Once this uninterruptible power supply (UPS) is installed, it will constantly monitor the mains supply and switch to battery power and enable the system to be shut down without data loss. The included software can even be set up to save your data and close down your computer automatically if the power fails while you are away from your desk. The UPS is supplied with a USB interface cable and software.

This UPS also features 2 x USB sockets on the front for charging any USB devices.

Note: Must be powered from the mains or a pure sine wave source (inverter etc.)

Specifications	MP-5214	MP-5216
Rating	360W, 650VA	750W, 1500VA
SLA battery	1 x 12V 7Ah	2 x 12V 9Ah
USB output	5VDC, 2A combined	5VDC, 2A combined
Supply Voltage	230VAC ± 20%	230VAC ± 20%
Output Voltage	230VAC ± 10%	230VAC ± 10%
Backup time		
Small PC (65W - 70W)	25 mins	94mins
Medium PC/LCD monitor (130W - 140W)	9 mins	49mins
Large PC & LCD monitor (190W - 210W)	5 mins	31mins
Switch over time	< 10ms	< 10ms
Recharge time	8 hrs	8 hrs
Output waveform	Modified sine wave	Modified sine wave
Software	Windows 8.1, 8, 7, Vista, XP, 2000, Linux	Windows 8.1, 8, 7, Vista, XP, 2000, Linux
Compatibility		
Dimensions	320(L)x145(W)x95(H)mm	320(L)x125(W)x220(H)mm



MP-5214



	Cat.	Qty 1+	Qty 4+	Qty 10+
360W - 650VA	MP-5214	\$129.00	\$115.95	\$102.95
750W - 1500VA	MP-5216	\$299.00	\$269.00	\$239.00

Line Interactive UPS with LCD - 650VA & 1500VA

Critical systems should ideally be connected to some form of backup power in the event of a blackout, power surge or brownout. A fault at the grid may drop the voltage at the mains, which could cause some systems to shutdown, reset, lose data or worse, resulting in thousands of dollars of damage (both material and immaterial).

These line interactive units give you a good balance between real time system protection and power redundancy when mains electricity is down or experiencing reliability issues. During mains voltage sags both units will deliver a steady voltage, keeping critical systems running properly. For a total power blackout the units can keep your systems running long enough to save important data or cleanly shutdown connected devices. Other important features include an auto shutdown when no load is detected, audible alarms for low battery, self diagnosis on boot, and intelligent battery management.

Both models feature an easy to read LCD which displays battery and load values as a percentage and input/output voltages. At the rear of the unit are 2 x RJ11 sockets for Telephone/Fax protection and a USB socket for connection to your PC for use with the power management software.

Specifications	MP-5205	MP-5207
Usage	Home PC, SOHO	Home PC, SOHO
Type	Line interactive	Line interactive
Status Display	Line	LCD
Backup time full load Mins	10 - 20 minutes	10 - 20 minutes
Recharge time	90% Capacity after 8 Hours	90% Capacity after 8 Hours
Internal SLA battery	1 x 12V 7Ah	2 x 12V/8Ah
Input voltage	180 - 230VAC	180 - 230VAC
Short circuit protection	Yes	-
Mains connections	2 (input and output)	2 (input and output)
Communication	USB	USB
Frequency	50Hz	50Hz
Software	Windows 8.1, 8, 7, Vista, XP 2000, Linux	Windows 8.1, 8, 7, Vista, XP 2000, Linux
Compatibility		
Dimensions	340 (L) x 95(W) x 165(H)mm	325(L) x 125(W) x 220(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
360W - 650VA	MP-5205	\$139.00	\$124.95	\$110.95
900W - 1500VA	MP-5207	\$319.00	\$285.00	\$255.00

19" RACK MOUNT CABINETS & PARTS

19" Rack Mount Cabinets

Ideal for studios, PA, sound reinforcement, IT, or phone systems installations, with a size and configuration to suit any application. Coupled with our wide range of accessories and options, these 19" rack cabinets offer outstanding features. All come in 1.8mm solid steel powder coated cabinets with clear tempered glass doors. The sides can be removed for installation or maintenance access and all panels are key-lockable.

- High strength and rigidity under load
- Contemporary design
- Lift off side panels
- Top or bottom cable entry
- Cooling fan hole
- Camlock closures
- Front, sides and back lock separately
- Wall mounting without brackets
- Static loading capacity 60kg

6U

Available flat packed or assembled
Dimensions: 530(W) x 360(H) x 450(D)mm
Flat Packed: Cat HB-5170
Assembled: Cat HB-5171

12U

Dimensions: 530(W) x 626(H) x 450(D)mm
Cat HB-5174



Swing Frame Rack Mount Enclosure

Swing frame enclosures allow you to access the rear of your rack system for maintenance or easier installation. Tempered glass doors and locking panels all round. 6 or 12 unit enclosures available.

6U

• Dimensions: 600(W) x 380(H) x 610(D)mm
Cat HB-5180

12U

• Dimensions: 600(W) x 630(H) x 610(D)mm
Cat HB-5182

	Cat.	Qty 1+	Qty 4+	Qty 10+
6U Rack Mount - Flatpacked	HB-5170	\$179.00	\$160.95	\$142.95
6U Rack Mount - Assembled	HB-5171	\$189.00	\$169.95	\$150.95
12U Rack Mount - Flatpacked	HB-5174	\$229.00	\$209.00	\$182.95
6U Swing Frame Rack Mount	HB-5180	\$269.00	\$239.00	\$209.00
12U Swing Frame Rack Mount	HB-5182	\$329.00	\$289.00	\$259.00

Rack Cabinet Panels

Quality brushed anodised panels with a black finish

Finish	Size		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	44mm	1U	HB-5404	\$16.95	\$14.95	\$13.35
Black	88mm	2U	HB-5405	\$24.95	\$22.35	\$19.70
Black	132mm	3U	HB-5406	\$29.95	\$26.95	\$23.95



19" Rack Blank Panels

Blank panels for filling in unused space or configuring panels to your own requirements. Black powder coated steel, 1or 2 unit, vented or plain. The vented panels are also useful at the back of rack enclosures for attaching wiring looms to.

1U BLANK

• Dimensions: 483(W) x 45(H)mm
Cat HB-5420

2U BLANK

• Dimensions: 483(W) x 89(H)mm
Cat HB-5422

1U BLANK VENTED

Cat HB-5424

2U BLANK VENTED

Cat HB-5426

	Cat.	Qty 1+	Qty 4+	Qty 10+
1U Blank Panel	HB-5420	\$10.95	\$9.85	\$8.75
2U Blank Panel	HB-5422	\$12.95	\$11.35	\$10.35
1U Vented Blank Panel	HB-5424	\$18.95	\$16.95	\$14.95
2U Vented Blank Panel	HB-5426	\$27.95	\$24.95	\$22.35



Pro Grade 19" Rack Style Equipment Enclosures

Complies with IEC 297 / EIA RS-310 C-1977 / DIN 41494 standards. Each cabinet is made from phosphated steel and coated with a dark grey enamel. The colour matched rack front panel is in 3mm aluminium with extruded handles (excluding 1U). The rear panel is aluminium as well. The top, bottom and sides of each cabinet are liberally punched with ventilation holes.

All screw fasteners are metal thread - not self tappers. Top, bottom, front and rear of enclosure can be separately removed without affecting the integrity of the cabinet. Each enclosure comes with punched internal rail bars to facilitate PCB, transformer, filter capacitor etc, mounting independent of cover panels. Each cabinet also features an internal sub panel (in 1.5mm enamelled aluminium) which is adjustable from 0-20mm from the back of the front panel. This panel is ideal for mounting panel hardware (no screws need appear on front panel). Rear panel is also adjustable 0-20mm inwards. The entire cabinet is packed flat for convenient transport. Rubber mounting feet are provided.

Dimensions(mm)	1U	2U	3U
Panel height	44	88	133
Cabinet height	39	84	128
Cabinet depth	245	335	335
Width	482.6	482.6	482.6



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 unit enclosure	HB-5120	\$74.95	\$67.45	\$59.95
2 unit enclosure	HB-5125	\$119.00	\$106.95	\$94.95
3 unit enclosure	HB-5130	\$129.00	\$115.95	\$102.95

19" RACK MOUNT CABINETS & PARTS (CONTINUED)

Rack Panel Accessories

A range of accessories to complete your rack system - blank panels for filling in space, vent panels and panels for fans or mic sockets, braked castors and feet for keeping it all where you want it. Panels are black powder coated steel, 1, 2 or 3 unit.

1U 12 X XLR SOCKET PANEL

- Dimensions: 483(W) x 45(H)mm
- Cat HB-5436



UNIVERSAL BRAKED CASTORS

- Ball bearing swivel castors
- universal mounting plate
- Suitable for rack cabinets, speaker boxes, etc.
- Sold as a set of 4
- Mount plate: 70(L) x 55(W)mm
- Wheel: 50(Dia) x 30(W)mm
- Overall Height: 75mm
- Cat HB-5470



UNIVERSAL ENCLOSURE FEET

- Adjustable height
- M12 threaded shaft
- Supplied with locking nut
- Sold as a set of 4
- Suitable for rack cabinets, speaker boxes, etc.
- Dimensions: 60(H) x 50(Dia)mm
- Cat HB-5472



	Cat.	Qty 1+	Qty 4+	Qty 10+
1U XLR Socket Panel	HB-5436	\$12.95	\$11.35	\$10.35
Braked Castors - Set of 4	HB-5470	\$34.95	\$31.45	\$27.95
Adjustable Feet - Set of 4	HB-5472	\$19.95	\$17.95	\$15.95

Patch Lead Management Panel

Keeps all your patch leads under control.

- 1U size.
- Removable cover plate



⬆	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
	483(W) x 45(H) x 68(D)mm	HB-5434	\$29.95	\$26.90	\$23.70

Rack Mount Cat 5e/6 Patch Panels

Sleek attractive looking rack mount 24 port patch panel with a hard metal exterior. Numbered ports and a labelling area for each port. Also comes with instruction stickers on the back for easier cabling. See our tool section for punch-down tools.

- Takes up 1 rack unit
- 24 port
- Numbered ports
- Labelling area
- Cat.5e or Cat6



	Cat.	Qty 1+	Qty 4+	Qty 10+
24 Port - Cat 5e Panel	YN-8046	\$49.95	\$44.90	\$39.90
24 Port - Cat 6 Panel	YN-8048	\$69.95	\$62.95	\$55.95

RACK MOUNT PDU & PATCH PANELS

6 Way PDU with Surge & Overload Protection



Power up to six components in your rack setup. The board has 6 conventional 240V outlets and fits any standard 19" rack. It actually takes a little more than one rack unit, but mounts on 1U centres.

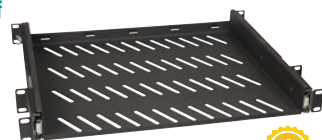
- 1U rack space
- Overload protected
- Surge Protection
- 10A output
- Lead length: 1.6m
- Dimensions: 482(W) x 46(H) x 46(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4094	\$69.95	\$62.95	\$55.95

Ball Bearing Sliding Rack Shelf

Ideal for mounting computer keyboards or other equipment that needs to be accessed easily. The slides have ball bearing runners for smooth operation & will take a load of 20kg.

- Dimensions: 483(W) x 52(H) x 350(D)mm



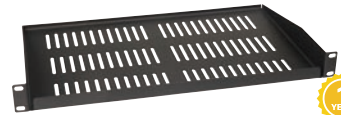
	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-5450	\$99.95	\$89.95	\$79.95

Fixed 19" Rack Shelves

Each shelf is punched with ample slots for ventilation and a folded return front and rear to take loads of up to 20kg. Solid steel construction, black powder coated finish. Suits Swing Frame Rack Mount Cabinets (HB-5180/HB5182) only.

1U FIXED RACK SHELF

- 483(W) x 45(H) x 305(D)mm
- Cat HB-5452



2U FIXED RACK SHELF

- 483(W) x 89(H) x 380(D)mm
- Cat HB-5454

	Cat.	Qty 1+	Qty 4+	Qty 10+
1U Fixed Rack Shelf	HB-5452	\$49.00	\$43.95	\$38.95
2U Fixed Rack Shelf	HB-5454	\$69.00	\$61.95	\$54.95

Rack Cable Supports

Takes the pain out of wiring and fault-finding rack cabinets. Your cables are kept organised and neat, with the support also providing strain relief.

1U

- Dimensions: 483(W) x 45(H) x 62(D)mm
- Cat HB-5430



2U

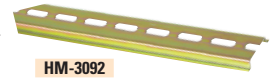
- Dimensions: 483(W) x 89(H) x 82(D)mm
- Cat HB-5432

	Cat.	Qty 1+	Qty 4+	Qty 10+
1U Rack Cable Support	HB-5430	\$24.95	\$22.35	\$19.70
2U Rack Cable Support	HB-5432	\$29.95	\$26.90	\$23.70

DIN RAIL & ENCLOSURE MOUNTS

DIN Rail

Metal DIN rail, standard size for mounting power supplies, relays, terminals etc. 1 metre length.



Enclosure Mounts for DIN Rail

Makes mounting standard enclosures onto standard DIN rails easy. Supplied as a pair with self tapping screws.



	Cat.	Qty 1+	Qty 4+	Qty 10+
DIN Rail - 1 metre	HM-3092	\$12.95	\$11.35	\$10.35
Enclosure Mounts for DIN Rail	HM-3094	\$11.95	\$10.75	\$9.55

PUNCH DOWN TOOLS

Cat5 Punch-Down Tool / Stripper

LOW-COST. This versatile little tool will strip wire up to 5 to 6.2mm diameter, and doubles as a punch-down tool for 110/88-type terminals, with blade. Made from poly-resin plastic, with steel cutters this lightweight tool could easily fit in the pocket or tool kit.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1738	\$8.95	\$7.95	\$6.95

Blade for Cat5 Punch Tools

This blade suits our punch tool

- TH-1740. Made from hardened SNCM-21, its blades are both changeable and reversible, and can be changed by hand, no screwdriver necessary. Blade retaining pressure with in 4-6 kg. One end of each blade has a cutter for that extra-neat termination, the other end is plain for those "linked" blocks.



	Cat.	Qty 1+	Qty 3+	Qty 6+
110 Krone	TH-1743	\$17.95	\$15.95	\$14.35

Cat5 Punch-Down Tool - Adjustable

Has the same functions as the tool above, but has extra features to achieve the perfect 'punch' for different wire sizes. It has a turnable body, adjustable impact pressure and a storage compartment within the handle for holding a spare blade. Frame made of polyacetal resin with orange fibreglass handle. Supplied with 88 blade.

- Spare blades see TH-1743.
- Impact pressure: Low: 10 +/- 2kg, (standard wire)
High: 15 +/- 2kg, (larger wire)
- Length of tool: 152mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1740	\$22.95	\$20.35	\$18.35

See Cat5e cable 30m pack on page 200.



COMPUTER & MULTIMEDIA TELEPHONE ADAPTORS & CONNECTORS

RJ11/12 MODULAR

50µ" Gold Contact
**4 PIN FOR
STRANDED CABLE**
4/4 - RJ11



**6 PIN FOR
STRANDED CABLE**
6/6 - RJ12



		Qty 1+	Qty 5+	Qty 20+
RJ11				
Pkt 5	PP-1430	\$2.45	\$2.15	\$1.95
RJ11				
Pkt 50	PP-1431	\$19.95	\$17.95	\$15.95
RJ12				
Pkt 5	PP-1432	\$2.95	\$2.60	\$2.30
RJ12				
Pkt 50	PP-1433	\$23.95	\$21.35	\$18.95

Australian / NZ Flush Wallplates

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks shown below, they are also compatible with many other standard Australian mechanisms and jacks. The 2 piece design has a separate back plate and cover which is easily removed for painting.

- Fits standard Australian/NZ electrical switch plate installation hardware and screw centres.
- Perfect for easy flush installation on Gyprock walls.
- Supplied unloaded without jacks (see cat. YN-8036).
- Dimensions 116(W) x 75(H) x 13(D)mm.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN-8015	\$5.95	\$5.25	\$4.75
Double	YN-8016	\$5.95	\$5.25	\$4.75
Triple	YN-8017	\$5.95	\$5.25	\$4.75

Keystone Wallplates

Flush type wall plates to accept our standard keystone 110 jacks. Fits standard Australian electrical switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.



- Supplied unloaded without keystone jacks
- Dimensions 70(W) x 114(H) x 6(D)mm

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Single White	YN-8050	\$2.50	\$2.21	\$1.95
Double White	YN-8052	\$2.50	\$2.21	\$1.95
Triple White	YN-8054	\$2.75	\$2.45	\$2.15
Quad White	YN-8056	\$2.90	\$2.60	\$2.30
6 Way White	YN-8058	\$2.90	\$2.60	\$2.30

RJ11 Socket 6P4C Keystone Jack

RJ11 Socket 6P4C
Keystone Jack



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	YN-8026	\$4.95	\$4.45	\$3.90

RJ45 MODULAR

Modular Plugs

50µ" Gold Contact
8/8 - RJ45
• Not ACMA approved



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1436	\$7.95	\$6.95	\$6.25

SCREENED 8 PIN FOR STRANDED CABLE

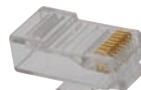
8P8C with full screening and round cable entry for connection to STP cable.



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1437	\$14.95	\$13.35	\$11.70

RJ45 MODULAR PLUGS FOR STRANDED/SOLID CAT 6 CABLE PK10

RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable. Pack of 10



RJ45 STRANDED		Qty 1+	Qty 5+	Qty 20+
Pkt 10	PP-1447	\$13.95	\$12.35	\$10.95

8 PIN FOR FLAT STRANDED CABLE

8/8 - RJ45



8 PIN FOR ROUND SOLID CORE CABLE

8/8 RJ45
Suits Cat5e



RJ45 STRANDED		Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP-1434	\$5.95	\$5.25	\$4.75

RJ45 STRANDED				
Pkt 50	PP-1435	\$29.95	\$26.95	\$23.95

RJ45 SOLID				
Pkt 6	PP-1438	\$6.95	\$6.25	\$5.50

RJ45 SOLID				
Pkt 50	PP-1439	\$34.95	\$31.45	\$27.90

RJ45 BOOTS

A packet of boots to suit RJ45 8/8 plugs.



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
4	PM-1441	\$4.95	\$4.45	\$4.15
Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
50 Blue	PM-1442	\$15.95	\$14.35	\$12.75

RJ45 IP67 Rated Connectors

These RJ45 connectors are designed for use in harsh environments. Rated to IP67 dust and water tight making them handy for control and communications applications located outdoors or in industry workshops.



RUGGED RJ45 PLUG - IP67 RATED

PP-1453



RUGGED RJ45 SOCKET - IP67 RATED

PS-1451



WATERPROOF CAP

Waterproof cap to suit PS-1451 IP67 RJ45 socket.
PP-1455



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug	PP-1453	\$14.95	\$13.45	\$11.95
Socket	PS-1451	\$19.95	\$17.95	\$15.70
Cap	PP-1455	\$9.95	\$8.75	\$7.75

Keystone Socket Jacks

RJ45 Socket CAT5e Keystone Jack
YN-8028



RJ45 Socket Cat6 Keystone Jack
YN-8029

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Cat5e	YN-8028	\$4.95	\$4.45	\$3.90
Cat6	YN-8029	\$4.95	\$4.45	\$3.90

RJ45 Cat6 Keystone Socket - White

RJ45 Cat 6 Keystone
Socket - white.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8033	\$11.95	\$10.70	\$9.50

RJ12 IDC Socket for Flush Plates

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.



↑	Cat.	Qty 1+	Qty 5+	Qty 20+
	YN-8035	\$9.95	\$8.75	\$7.75

Cat5e IDC Jack to Suit Aust / NZ Style Flush Plates

Our premium Cat 5e IDC data jack is designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.



- Rear terminated with 110 or Krone impact tool.
- T568A & T568B colour coding for easy installation.
- ACMA Approved.
- Suits our YN-8015/16/17 wallplates.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8036	\$9.95	\$8.75	\$7.75

RJ45 Cat5e IDC Keystone Jack - Pk 6

This pack of 6 Cat6 keystone jacks are designed to suit standard Australian & New Zealand wall plates.



- Rear terminated with 110 or Krone impact tool
- T568A & T568B colour coding for easy installation
- ACMA approved
- Suits YN-8015/6/7 wall plates



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8039	\$39.95	\$35.90	\$31.90

RJ45 Cat6 Tool-less Keystone Jack

This Cat6 keystone jack allows you to connect Ethernet cable without the need of crimping tools.



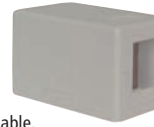
- Installation is quick and easy

Note: Product may vary to one shown

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8038	\$16.95	\$14.95	\$13.35

Keystone Surface Box

Side entry surface mount boxes to accept our standard keystone 110 jacks.



- Snap-on cover for easy installation & access to wiring.
- Single and duplex versions available.
- Double sided tape for easy installation.
- Supplied unloaded without keystone jacks.
- Colour is white.



↑	WxHxD(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	30x60x26	YN-8022	\$5.95	\$5.25	\$4.75
Double	55x60x26	YN-8024	\$5.95	\$5.25	\$4.75

110 Keystone Jack

Suitable for use with our keystone wall plates and keystone surface boxes.



- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation.
- White in colour.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8030	\$9.95	\$8.75	\$7.75

RJ45 MODULAR (CONTINUED)

Cat5e Coupler 8P/8C

This coupler makes short work of small Cat 5 cabling jobs and enables pre-made cables to be used through-out. Simply clip into a wall plate and plug cables in on both sides.

ACMA Approved



Cat.	Qty 1+	Qty 4+	Qty 10+
YN-8032	\$19.95	\$17.95	\$15.70

Cat5e Socket Coupler Straight

Use this jack connector to join two fabricated Cat 5e cables.
• Straight through

ACMA Approved



Cat.	Qty 1+	Qty 4+	Qty 10+
YN-8034	\$16.95	\$14.95	\$13.35

Cat6 RJ45 Inline Coupler

Use this coupler to join two fabricated Cat6 cables.

• Wired straight through



Cat.	Qty 1+	Qty 4+	Qty 10+
YN-8037	\$19.95	\$17.95	\$15.95

US Modular Inline Coupler Socket To Socket 6P/4C

Connects two US plugs together.

ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6060	\$5.95	\$5.25	\$4.75

Modular Inline Joiner RJ45 8P/8C

RJ45 8P/8C socket to socket. Wired straight through. Pin #1 to pin #1.
Note: Not suitable for Ethernet connections.

ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6080	\$4.95	\$4.45	\$3.90

Modular Inline Joiner RJ45 8P/8C Crossover

RJ45 8P/8C socket to socket. Wired in crossover format. Pin #1 to pin #8.
Note: Not suitable for Ethernet connections.

ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6081	\$5.95	\$5.25	\$4.75

US Modular Skirting Mount Wall Socket RJ12 6P/4C

Standard US type wall socket. Suitable for all telephones.



ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6058	\$6.50	\$5.75	\$4.95

DB9 Socket to RJ45

Socket adaptor. Can be wired without soldering.

• Unwired

ACMA Approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-0906	\$5.95	\$5.25	\$4.75

DB25 Plug to RJ45 8P/8C Socket Adaptor

Unwired. Can be wired without soldering.



ACMA Approved



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-0904	\$7.95	\$6.95	\$6.25

Wall Socket - 6P/4C

Square wall socket to suit RJ12 6P/4C plugs. Screw terminals for connection.
• 44 x 44 x 24(D)mm.



ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6059	\$5.95	\$5.25	\$4.75

RJ45 Side Entry Surface Mount - 8P/8C

Side entry surface mount voice grade US modular socket. Snap-on cover provides access to screw terminals for connection of wires. Double sided tape included for easy installation.

• 50(W) x 57(H) x 20(D)mm.



ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6064	\$6.50	\$5.75	\$4.95

RJ45 to RJ12 Reducers

These sleeves reduce a RJ45 size socket to a RJ12 size. This allows RJ45 sockets to accept either RJ12 or RJ45 plugs. Pack of 5.



Cat.	Qty 1+	Qty 5+	Qty 20+
Pkt 5 YT-6055	\$4.95	\$4.45	\$3.90

Wall Phone Bracket RJ12 6P/4C

Wall phone bracket designed to allow easy installation of telephones which have standard US modular wall mountings. The line is connected from bracket to phone by a 30mm modular cord.

• Fits standard Australian electrical switch plate installation hardware.
• 76W x 119H x 9Dmm



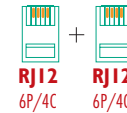
ACMA Approved



Cat.	Qty 1+	Qty 5+	Qty 20+
YT-6062	\$7.95	\$6.95	\$6.25

Extension Cables RJ12 6P/4C

RJ12 6P/4C US Modular Plugs US plug to US plug.
• Colour Ivory.

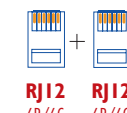


ACMA Approved

	Cat.	Qty 1+	Qty 5+	Qty 20+
300mm	YT-6044	\$3.95	\$3.45	\$3.15
1.0m	YT-6042	\$4.95	\$4.45	\$3.90
3.0m	YT-6040	\$5.95	\$5.25	\$4.75
5.0m	YT-6049	\$7.95	\$6.95	\$6.25
10.0m	YT-6041	\$11.95	\$10.70	\$9.50
15.0m	YT-6043	\$14.95	\$13.35	\$11.70

Extension Cables RJ12 6P/6C

Used in many office telephone Commander type systems, where 6 wires are required. Plug to plug.
• RJ12 6P/6C US Modular Plugs
• Colour Ivory.



ACMA Approved

	Cat.	Qty 1+	Qty 5+	Qty 20+
1.0m	YT-6033	\$9.95	\$8.75	\$7.75
3.0m	YT-6036	\$11.95	\$10.70	\$9.50
5.0m	YT-6034	\$12.95	\$11.35	\$10.35
10.0m	YT-6037	\$13.95	\$12.35	\$10.95
15.0m	YT-6038	\$16.95	\$14.95	\$13.35

Replacement Handset Curly Cord 4P/4C US MODULAR PLUGS



ACMA Approved

	Cat.	Qty 1+	Qty 5+	Qty 20+
3.0m White	YT-6047	\$8.95	\$7.95	\$6.95

RJ12 to RJ45 Modular Leads

RJ12 6P/4C to RJ45 8P/4C
Colour: Ivory.



ACMA Approved

	Cat.	Qty 1+	Qty 5+	Qty 20+
2.0m	YT-6086	\$8.95	\$7.95	\$6.95
3.0m	YT-6087	\$12.95	\$11.35	\$10.35

LINE FILTERS & ADAPTORS

ADSL2+/VDSL2+ In-Line Filter

If you have an ADSL2+ or VDSL2+ Internet connection, you'll need a compatible filter to keep unwanted noise from the phone or fax line. ADSL filters are not suitable as they don't allow the 2.2MHz bandwidth required for ADSL2+ and you won't get the full speed of your connection. Three different types available, a single in-line filter for use with extra phones or fax line, a filter/splitter for use with the primary line with the modem and phone line connected to it and a central filter for use when an alarm dialler or large number of phone outlets exist. Complies with ACIF S041.

ADSL2+/VDSL2+ IN-LINE FILTER:

Cat. YT-6091 (NOT AVAILABLE IN NEW ZEALAND)

ADSL2+/VDSL2+ FILTER/SPLITTER:

Cat. YT-6093 (NOT AVAILABLE IN NEW ZEALAND)

ADSL2+/VDSL2+ CENTRAL FILTER:

Cat. YT-6099 (NOT AVAILABLE IN NEW ZEALAND)



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6091	\$16.95	\$14.95	\$13.35
	YT-6093	\$22.95	\$20.35	\$18.35
	YT-6099	\$35.00	\$31.45	\$27.95

Cat5 UTP Splitter

Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet. Please note: you can't use this device to run two computers from one network port: you'll need a network switch for that. This product is unsuitable for gigabit networks.



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	YT-6090	\$16.95	\$14.95	\$13.35

Modular Double Adaptor - RJ12

Connect two telephones to the one socket.

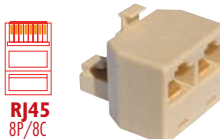
• 6P/4C



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6056	\$5.95	\$5.25	\$4.75

Modular Double Adaptor - RJ45

RJ45 8P/8C plug to two sockets. Wired straight through - pin #1 to pin #1.



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6082	\$11.95	\$10.70	\$9.50

Modular Triple Adaptor RJ12 6P/4C

RJ12 plug to 3 sockets. Allows connection of 3 products to the 1 unit.



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6057	\$12.95	\$11.35	\$10.35

605 to 610/RJ12 Telephone Double Adaptor

Telephone double adaptor with both 610 and RJ12 6P/4C output sockets.



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6028	\$6.95	\$6.25	\$5.55

Telephone Extension Ringer

This can be used to increase the volume of your existing landline phone or to relocate the ringer into a different room or location. It is ideal for industrial environments where background noise can mask the sound of your ringing telephone. Includes mounting screws.

- Wall mountable with On/Off switch
- Multiple tone and pitch selection
- Volume control
- Multiple input types
- 8-12 ohm output for horn speaker
- No battery or external power required
- Dimensions: 155(H) x 90(W) x 30(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6068	\$29.95	\$26.95	\$23.70

Telephone Isolation On Hold Kit

A simple and affordable telephone line isolation unit that can be used as the basis of a telephone music on-hold adaptor. Suitable for even the smallest business, use it to customise the on-hold music that your clients listen to. Accepts input via 3.5mm headphone socket, so it will work fine with any MP3 player. Also includes an RCA adaptor for use with other sound sources.

- Dimensions: 75(H) x 28(W) x 219(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6070	\$29.95	\$26.95	\$23.70

Look for our Modular Crimp Tool with Network/PoE Tester on page 323.

TELEPHONE CONNECTORS

Plug Adaptor 605 Type

Australian plug to RJ12 6P/4C or RJ45 8P/4C US socket. Includes reducing sleeve.

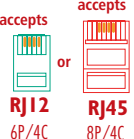


Note: Not available in New Zealand

	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6054	\$5.95	\$5.25	\$4.75

Socket Adaptor 610 Type

Australian socket to RJ12 6P/4C or RJ45 8P/4C US socket. Includes reducing sleeve.



Note: Not available in New Zealand

	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6052	\$6.95	\$6.25	\$5.50

Double Adaptor

Australian plug to two RJ12 6P/4C US sockets.

- Slimline package



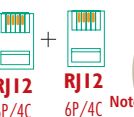
Note: Not available in New Zealand



	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6023	\$6.95	\$6.25	\$5.50

US Plug to Australian Plug

Includes Australian plug with RJ12 6P/4C socket in back and 2 metre lead with a RJ12 6P/4C on each end.



Note: Not available in New Zealand

	Cat.	Qty 1+	Qty 5+	Qty 20+
↑	YT-6045	\$6.95	\$6.25	\$5.50

PERSONAL AUDIO

Accessories for Smartphones	399
Headphones & Earphones	400
Personal Cassette Players	395
Radios	396

PA & PARTY AUDIO

Amplifiers	379
DJ Equipment	392
Instruments Accessories	386
Laser Lights & Spotlights	394
Microphones & Systems	386
PA Speakers & Systems	390
Party Lighting & Effects	392

HOME AUDIO & HOME THEATRE

Active Subwoofer	380
Amplifiers - Component	380
Audio / Video Leads	361
AV Senders	356
AV Switch Boxes	360
HDMI Accessories	347
IR Extenders	357
Plasma/LCD TV Mounting Brackets	375
Remote Controls	358
Set-Top Boxes	359
Speakers & Accessories	378
Turntables & CD Adaptors	398
TV Antennas & Accessories	368

Background image sent to us by David who shops at our Jaycar Modbury store

"Laser testing colloidal silver samples from my custom designed CS generator built from many Jaycar components. There are plenty of Jaycar products on my workbench from tools, test gear, soldering iron, hot glue gun to component drawers, magnifying lamp as well as wire and cable.

The lasers are 2 x HeNe 633nm industrial gas tubes and 1 x 532nm green laser diode."

HDMI SWITCHERS**HDMI Switchers with Remote Control**

Compact HDMI switchers for small to medium scale home theatre or gaming console setups. Using the one-touch button or the supplied remote control, you can switch your TV's display between a Blu-ray player, Playstation or other HDMI source with ease.

Supports HDCP repeater functions, HDMI 1.4 at 4K, 2K resolutions, & also 3D video. It is powered directly from HDMI so no external power supply is needed. The IR receiver is on a 1.5m cable so you put the switcher at the back of the TV cabinet if required. Choose between 3 or 5 input:

Specifications	Both
Support	HDMI 1.4
Resolutions	All resolutions up to 4K x 2K
Supported formats	PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1, Dolby TrueHD, DTS-HD
Power	0.2W

3 INPUT HDMI SWITCHER WITH REMOTE

Specifications	AC-1705
Inputs	3 x HDMI
Outputs	1 x HDMI
Dimensions	87(L) x 59.5(W) x 19(H)mm

AC-1705

**5 INPUT HDMI SWITCHER WITH REMOTE**

Specifications	AC-1706
Inputs	5 x HDMI
Outputs	1 x HDMI
Dimensions	146(L) x 70(W) x 24(H)mm

AC-1706



	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Input	AC-1705	\$39.95	\$35.95	\$31.95

	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Input	AC-1706	\$69.95	\$62.95	\$55.95

BEST SELLER

1 YEAR WARRANTY

HDMI SWITCHER COMPARISON GUIDE

In the last few years there has been a subtle change in the way the world has reacted to interface technology. Most of us are old enough to remember interface technologies like S-Video, SCART, DVI, etc. These interfaces have come and gone without a ripple. The same cannot be said for USB, for example. Let's remember what USB stands for: Universal Serial Bus. What an absolute understatement! Where would we be without the battery charging capabilities that USB brings us!

USB & HDMI have had a profound effect on the way we connect technology together. These technologies have given us not only

reliable electromechanical connectors, they have enabled us to connect technology seamlessly.



We only have to hear the term HDMI and we know that we can set up a high definition AV system and know that it will work perfectly. We depend on HDMI. Like USB, it has become far, far more than sophisticated cabling hardware. Check out this section carefully. You will be amazed just how far HDMI has come and what it can do to enhance your life.

Use our selection guide to help choose...

	AC-1705	AC-1706	AC-1707	AC-1710	AC-1712	AC-1714	AC-1760	AC-1762	AC-1766	AC-1768	AC-1769
Type	Switcher	Switcher	Switcher	Splitter	Splitter	Switcher Splitter	Switcher	Switcher	Splitter	Splitter	Splitter
Auto Switch	-	-	-	-	-	-	✓	✓	✓	✓	-
Deep Colour Support	16 bits	16 bits	16 bits	48 bits	48 bits	48 bits	24 bits	24 bits	24 bits	24 bits	24 bits
HDMI Version	1.4a	1.4a	1.4a	1.4a	1.4a	1.4a	2.0	2.0	2.0	2.0	2.0
HDCP Version	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.2
Max Resolution	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K
No of HDMI Inputs	3	5	4	1	1	4	3	5	1	1	1
No of HDMI Outputs	1	1	1	2	4	2	1	1	2	4	8
Power supply required	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Power supply included	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Page	347	347	349	348	348	350	349	349	349	349	349

HDMI SPLITTERS

HDMI Splitters with UHD 4K Support

These splitters will distribute a HDMI source to multiple HDMI displays simultaneously. They are typically used in retail environments, clubs, business foyers, data control centres etc. HDMI 1.4 compliant and has full support for 4K UHD and 3D video. It also supports a breadth of audio formats including Dolby-AC3, DSD and more. Compact and subtle mount it in a suitable area with double sided adhesive tape.



2 PORT HDMI SPLITTER WITH UHD 4K SUPPORT

- 3D HDMI 1.4a support
- 3D video support
- ESD protection
- HDCP 1.4 compliant

AC-1710



Specifications	AC-1710
Inputs	1 x HDMI
Outputs	2 x HDMI
Supports resolutions	up to 4K (3840 x 2160) @30Hz, 1080p @ 120Hz, & 1080p 3d@60Hz
Supports deep colour	30-bit, 36-bit, and 48-bit per pixel
Supported Audio formats	DTS-HD, Dolby-true-HD, LPCM 7.1, DTS, Dolby-AC3, DSD
Power	5VDC 1A power supplied
Power consumption	5W
Dimensions	70(L) x 60(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Port	AC-1710	\$59.95	\$53.95	\$47.90

4 PORT HDMI SPLITTER WITH UHD 4K SUPPORT

- 3D HDMI 1.4a support
- 3D video support
- HDCP 1.4 compliant

AC-1712



Specifications	AC-1712
Inputs	1 x HDMI
Outputs	4 x HDMI
Supports resolutions	up to 4K (3840 x 2160) @30Hz, 1080p @ 120Hz, & 1080p 3d@60Hz
Supports deep colour	30-bit, 36-bit, and 48-bit per pixel
Supported Audio formats	DTS-HD, Dolby-true-HD, LPCM 7.1, DTS, Dolby-AC3, DSD
Power	5VDC 1A power supplied
Power consumption	5W
Dimensions	145(L) x 70(W) x 23(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Port	AC-1712	\$109.00	\$89.95	\$79.95

HDMI SWITCHERS & SPLITTERS

4 Input HDMI Switcher with MHL Input & PIP Function

Features 3 x HDMI inputs on the rear and 1 x HDMI input at the front which can accept either a standard HDMI source (e.g. set top box, blu-ray player) or an MHL source which is now the common AV output on Android Smartphones or Tablets. This MHL input also supports RCP function which means you can control the connected Android device via any TV remote control. It also features PIP (Picture in Picture) function which when toggled, while watching a source, allows you to view and select what else is connected. This unit also supports up to 4K UHD resolution and up to 7.1ch of audio. Supplied with MHL cable and mains adaptor.

- Picture In Picture (PIP) Function
- Built-in MHL Converter on Input 1

Specifications	AC-1708
Inputs	4 x HDMI
Outputs	1 x HDMI
Supported Resolutions	Up to 4K x 2K, includes 3D
Audio Channels	2.0, 5.1, 7.1
Audio Formats	DTS Digital, Dolby Digital
Complaint	HDMI 1.4, HDCP, CEC
ESD Protection	Yes
Dimensions	145(L) x 67(W) x 23(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC-1708	\$99.95	\$89.95	\$79.95

4 Input Switcher with Digital & Analogue Audio Splitter

A high performance HDMI switcher which allows fast changing between up to 4 HDMI sources such as an Xbox, media player, DVD player etc. Ideal for the home, retail service-scape, lecture halls or other venues where broad HDMI source compatibility is required. This unit features a TOSLINK and 3.5mm stereo audio socket that will output audio to an array of sound system setups. Supports the latest HD resolutions up to 4K x 2K, 3D video, Dolby TrueHD and more. Operate using the one touch button on the switcher or via the supplied remote control. LED indicators on the front panel show how many devices are connected and how many audio channels are being used for the current device (2.0CH, 5.1CH, or 7.1CH). 5VDC power supply included.

- HDCP repeater support
- Compliant with HDMI 1.4a, CTS 1.4a, DVI 1.0, and VESA DisplayPort 1.1a

Specifications	AC-1707
Inputs	4 x HDMI
Outputs	1 x HDMI
3D TV support	Yes
Resolutions	All resolutions up to 4K x 2K
Audio channels	2.0CH, 5.1CH, 7.1CH
Audio formats	Dolby TrueHD, DTS-HD Master Audio 7.1CH
Power	5VDC 1A
Power consumption	3W
Dimensions	146(L) x 70(W) x 24(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC-1707	\$119.00	\$106.95	\$94.95

4 Input HDMI Switcher



Originally used as a 4 way HDMI switcher for our AR-1877 Wireless HDMI AV Sender. However, this device can also be used as a standard 4 input HDMI matrix switch. You are able to select between four different HDMI inputs and send two separate signals to the two HDMI outputs. We are offering this as a clearance item at very competitive price; nearly a third of the cheapest 2 way matrix switch available in the market.

- Dimensions: 154(H) x 55(W) x 20(D)mm

	Cat.	Qty 1+
4 Input	AR-1874	\$19.95



HDMI 2.0 Switchers with Remote

High performance HDMI switchers with remote control. It supports all 3D TV formats in addition to all HDTV formats up to 4K x 2K. On top of that, the remote control gives complete control over the selection of sources and makes the device incredibly user friendly.



Available in two models:

- Common features:
- Support smart auto switch
- IR and panel button control

HDMI 2.0

Specifications	AC-1760	AC-1762
Compliant with	HDMI2.0, HDCP2.2 and DV11.0	
Support video format	up to 4K2K @ 30Hz with 24bit RGB/YcBcR 4:4:4/YCBCR 4:2:2, and up to 4K2K @ 60Hz with 12 bit YCBCR 4:2:0	
Support 3D frame sequential video format	up to 1080p@60	
Support high resolution VESA mode video format	up to QXSGA @ 60Hz	
Supports	LPCM 7.1CH, Dolby® TrueHD and DTS-HD Master Audio	
Input	3 x HDMI	5 x HDMI
Output	1 x HDMI	1 x HDMI

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Way	AC-1760	\$69.95	\$62.95	\$55.95
5 Way	AC-1762	\$99.95	\$89.95	\$79.95

HDMI 2.0 UHD Splitters

These HDMI UHD splitters with HDCP 2.2 are an advanced solution for splitting a single HDMI input to multiple HDMI outputs. They provide high performance audio and video output through HDMI cables up to 4K2K resolution and are capable of receiving and transmitting up to 9Gbps of bandwidth with no data loss. Supporting the latest features you can be assured of reliable and high quality HDMI distribution.

- Support smart auto switch
- IR and panel button control



AC-1766

HDMI 2.0

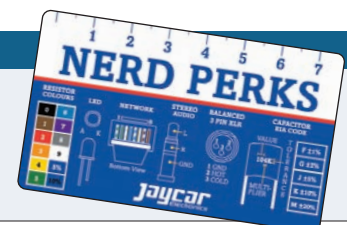
Specifications	AC-1766	AC-1768	AC-1769
Compliant with	HDMI2.0, HDCP2.2 and DV11.0		
Support video format	up to 4K2K @ 30Hz with 24bit RGB/YcBcR 4:4:4/YCBCR 4:2:2, and up to 4K2K @ 60Hz with 12 bit YCBCR 4:2:0		
Support 3D frame sequential video format	up to 1080p@60		
Support high resolution VESA mode video format	up to QXSGA @ 60Hz		
Supports	LPCM 7.1CH, Dolby® TrueHD, and DTS-HD Master Audio		
Input	1 x HDMI	1 x HDMI	1 x HDMI
Output	2 x HDMI	4 x HDMI	8 x HDMI

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	AC-1766	\$79.95	\$71.95	\$63.95
4 Way	AC-1768	\$129.00	\$115.95	\$102.95
8 Way	AC-1769	\$199.00	\$178.95	\$158.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



SIGHT & SOUND

HDMI SWITCHERS & CONVERTERS

HDMI SWITCHERS & SPLITTERS (CONTINUED)

HDMI 4 x 2 Matrix Switcher Splitter with UHD 4K Support



Distribute up to four HDMI sources to 2 displays simultaneously.

This will add a level of convenience for households that have two TVs but don't want to buy another set of Blu-ray players, set top boxes, etc. A single Blu-ray player connected to the matrix would output its movie to two screens. This is also great for retail service escapes, shopping centres, reception areas and foyers. Has support for all resolutions up to UHD 4K x 2K as well as 3D support and EDID so switching sources will be fast with minimal interruption. An IR remote control for switching sources is supplied.

Inputs: 4 x HDMI
Outputs: 2 x HDMI

Audio support:

- 2.0CH
- 5.1CH
- 7.1CH
- DTS digital
- Dolby Digital
- DTS-HD & Dolby TRUE HD



Video Support:

- HDMI 1.4
- All resolutions up to UHD 4K x 2K and 3D, 297MHz/2.97Gbps Per Channel Bandwidth
- Supports 12 bit per channel deep colour
- Dimensions: 85(W) x 192(D) x 26(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1714	\$129.00	\$115.95	\$102.95

HDMI CONVERTERS

HDMI Audio Extractor

Extracts the audio from HDMI and outputs to a 3.5mm socket or S/PDIF for connection to a set of speakers, home theatre audio system or amplifier. As some modern displays have less than desirable speakers, or no speakers at all, this will provide a simple way to connect audio up to a better sounding system. It supports video resolutions up to 4K x 2K and audio to 5.1CH digital. Comes with a 3.5mm to RCA audio cable.

- Input: 1 x HDMI
- Output: 1 x HDMI, 1 x 3.5mm audio socket, 1 x S/PDIF socket
- Supports video resolutions up to 4K x 2K
- HDCP support
- HDMI 1.4 compliant
- Requires no external power supply
- Dimensions: 61(L) x 54(H) x 20(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1741	\$84.95	\$76.50	\$67.95

TECH TALK!



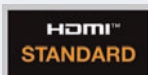
HDMI began in 2002, a digital format for Video and audio which singlehandedly replaced all analogue connections such as RCA, Scart, and S video just to name the most common.

There were many advantages of the DIGITAL format, but the most obvious was that the fact that once a HD source like BluRay was connected to a HD 1080p panel, there was no going back to analogue ever again. The improvements were startling in both picture and sound.

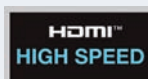
HDMI version	1.0	1.1	1.2	1.3	1.4	2.0
Date initially released	2002	2004	2005	2006	2009	2013
Maximum total throughput (Gbits)	4.95	4.95	4.95	10.2	10.2	18
Maximum colour depth	24	24	24	48	48	48
Maximum resolution over at 24-bit	1920 x 1200p60	1920 x 1200p60	1920 x 1200p60	2560 x 1600p60	4096 x 2160p30	4096 x 2160p60

HDMI 1.4 version in 2009 had a huge impact by offering some exciting new features.

- Ethernet over HDMI
- Audio Return Channel
- 3D Support
- Support for 4K x 2K resolution
- Additional Colour Spaces
- HDMI Micro Connector supporting video resolutions up to 1080p.
- Automotive Connection



Not backward compatible



Fully backward compatible

HDMI to AV Composite Converter

Connect a HDMI source like a laptop or Blu-ray player to work with old CRT TV's or monitors equipped with RCA composite and stereo audio. The converter also supports either NTSC or PAL systems. This converter provides high quality output image, and features an easy to use zoom function which allows you to adjust your display size to suit different configurations. Supports a wide range of resolutions, making it a perfect solution for using newer devices with existing legacy displays.



- Supports NTSC and PAL systems
- HDCP support
- HDMI 1.3 compliant
- Requires 5VDC power supply (included)
- Dimensions: 115(D) x 100(W) x 25(H)mm
- Input: HDMI
- Output: 1 x RCA (CBVS/Composite) and 2 x RCA (Audio L & R)

Supported input resolutions:

- 800 x 600 • 1024 x 768 • 1280 x 720 • 1280 x 1024 • 1920 x 1080



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1720	\$129.00	\$115.95	\$102.95

HDMI Audio Signal Volume Leveller

Great audio means you need the best, and with advanced HDMI repeating and decoding the HDMI Volume Leveller is the perfect choice to fine-tune your listening experience. Also helps protect your valuable home theatre equipment from annoying and equipment-damaging noise spikes. It will even sort out those annoying fluctuations in volume while channel surfing or between the TV shows themselves and the advertisements (which always seem to be louder).



- Regulates TV, satellite, radio and DVD volume
- Mains power supply included
- HDMI in/out ports
- Boosts low & high-frequency content dynamically
- Measures: 100(W) x 64(D) x 23(H)mm.



	Cat.	Qty 1+
	AC-1615	\$39.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
Conditions apply - see page 528 for details.

- HDMI 1.4a version in 2010. Added 3D format for broadcast content.
- HDMI 1.4b version in 2011. Enabled 3D 1080p video at 120 Hz, so that each eye can receive full HD.

HDMI 2.0 VERSION IN 2013 THESE ARE THE MAIN IMPROVEMENTS

- Increases bandwidth to 18Gbps from 10.2, over 75% more bandwidth.
- Resolution ultra 4K @50/60, (4 times that of 1080p/60 video resolution)
- Wide angle theatrical 21:9 video aspect ratio. instead of 16x9
- HDCP 2.2 copy protection.

WHY DO WE NEED SUCH HIGH DEFINITION?

Most people are choosing larger TVs, 55" are very common. If you look at the picture like 720p (cable TV box) larger than 32" you will notice that it is quite fuzzy, view it on a 55" and you will find the picture truly bad. So with larger TVs say 80 to 100" we need higher resolution. This is the main reason the industry is trying to improve the resolution. Another reason is that 3D requires at least 1080p per eye so again the need for higher resolution is a must.

WHAT DOES THIS MEAN FOR YOU?

DO I NEED NEW CABLES?

YES [standard] NO [high speed with or without Ethernet]

WILL I NEED NEW HARDWARE?

YES [1080p throughput= 10.2 Gbits, UHD 4k = 18 Gbits]

WILL ULTRA 4K WORK ON MY TV?

NO [needs HDCP 2.2]

HDMI CONVERTERS (CONTINUED)

4K HDMI to Composite Audio & Video Converter

Convert digital 4K UHD HDMI video and audio signal from your Blu-ray player or computer to composite video signal for connection with your older style CRT/LED/LED monitors or projectors. HDMI output is converted to normal CVBS (standard-definition 480i, 576i) and analogue audio output.

- No installation driver required
- Flexible and portable
- High quality scaling technology for input resolutions
- Support NTSC and PAL two standard TV formats output
- Compatible with HDMI1.4
- Support HDMI input resolution up to 4K x 2K@30Hz



HDMI 2.0

4K UHD

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1772	\$149.00	\$133.95	\$118.95

4K HDMI to VGA & Stereo Audio Converter

Convert digital 4K UHD HDMI video and audio signal from your Blu-ray player or computer to standard VGA and RCA stereo audio signal for connection with your older style CRT/LED/LED monitors or projectors.

- No installation driver required
- Flexible and portable
- High quality scaling technology for input resolutions
- Multiple output resolution setting in OSD menu
- Compatible with HDMI1.4
- Support HDMI input resolution up to 4K x 2K@30Hz



HDMI 2.0

4K UHD

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1770	\$149.00	\$133.95	\$118.95

VGA & RCA Audio to HDMI 4K Upscaler Converter

The VGA to HDMI upscaler converter is a universal converter for analogue VGA input to HDMI 4K x 2K@60Hz output. The analogue to digital conversion in this module employs 10 bits maximal 297MSPS sampling, black/white level expansion, colour transition improvement, dynamic range expansion, blue stretch, auto-detect and auto-convert the VGA signal to HDMI output. It allows making the video come alive, delivering the sharpest and most realistic HD visuals. Supplied with a 5VDC, 1A mains power adaptor.

- No installation driver required
- Flexible and portable
- Advanced signal processing with great precision, colours, resolution and details
- Support multi-VESA standard VGA formats input
- Support HDMI 4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, or 720p@60Hz output



HDMI 2.0

4K UHD

Specifications	AC-1774
Input ports	1 x VGA, 1 x Earphone, 1 x mini USB
Output	1 x HDMI
VGA input resolution	640 x 480p@60Hz, 800 x 600@60Hz, 1024 x 768p@60Hz, 1280 x 720p@60Hz, 1280 x 768p@60Hz, 1280 x 1024p@60Hz, 1360 x 768p@60Hz, 1920x 1080p@60Hz.
HDMI output resolution	4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, 720p@60Hz
Power Consumption (Max)	3W
Dimensions	93(D) x 84(W) x 28(H)mm, 300g

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1774	\$149.00	\$133.95	\$118.95

AUTOMATIC ACCOUNT

For Schools, Government Departments,
Public Companies, Radio & TV Stations

Composite Audio Video to HDMI 4K Upscaler Converter

The AV to HDMI 4K Upscaler Converter is a universal converter for analogue composite input to HDMI 4Kx2K@60Hz output. The analogue to digital conversion in this module employs 10 bits maximal 297MSPS sampling, black/white level expansion, colour transition improvement, dynamic range expansion, blue stretch, auto-detect and auto-convert the composite signal to HDMI output. Making video come alive, delivering the sharpest, most realistic HD visuals available. Supplied with a 5VDC, 1A mains power adaptor.

- No installation driver required
- Flexible and portable
- Provide advanced signal processing with great precision, colours & resolution
- Support PAL, NTSC3.58, NTSC4.43, SECAM, PAL/M, PAL/N standard TV formats input
- Support HDMI 4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz or 720p@60Hz output.



HDMI 2.0

4K UHD

Specifications	AC-1776
Input ports	1 x RCA (Yellow, White, Red), 1 x S-Video, 1 x Mini USB
Output	1 x HDMI
CVBS/S-VIDEO input	PAL, NTSC3.58, NTSC4.43, SECAM, PAL/M, PAL/N standard TV formats
HDMI output resolution	4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, 720p@60Hz
Dimensions	93(D) x 84(W) x 28(H)mm, 300g

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1776	\$149.00	\$133.95	\$118.95

Composite AV to HDMI Converter

A universal converter for analogue composite input to HDMI 1080p (60Hz). The analogue to digital conversion module will deliver a sharp and realistic image thanks to its processing technology. Power is delivered to the unit through the mini USB port. Enable old devices such as Sega master systems, DVRs, or VHS players to playback video and audio on more modern HDMI equipped displays.

- Supports HDMI 1080p 60Hz / 720p 60Hz output
- Requires 5VDC power through the mini USB port (power supply included)



Specifications	AC-1722
Input	Composite video and L/R Analogue audio (Yellow/White/Red RCA)
Composite input	PAL/NTSC3.58/NTSC4.43/SECAM/PAL-M/PAL-N
Output	HDMI
Dimensions	60(W) x 54(L) x 20(H)mm
Weight	80g

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1722	\$84.95	\$76.50	\$67.95

2 x HDMI to VGA/Component & Analogue/Digital Audio Converter

No need to upgrade to expensive LCDs or plasmas just yet. This converter can accept 2 HDMI sources, and features a switch to select which device you want to output. Connect HDMI signals from DVD, Blu-ray or set top boxes and output to VGA, component video, with digital (TOSLINK) or analogue (3.5mm stereo) audio outputs for connection to almost any TV or PC monitor. Supports resolutions up to 1080p; output resolution is determined by input.

- Supports NTSC and PAL systems
- HDCP Support
- HDMI 1.3 compliant



Specifications	AC-1721
Input	2 x HDMI
Video Output	1 x YPbPr / 1 x VGA
Audio Output	1 x TOSLINK / 1 x 3.5mm Stereo
Supported resolutions	HDMI Input: up to 1080p VGA Output: up to 1080p @ 60Hz YPbPr Output: up to 1080p @ 50Hz / 60Hz 5VDC power supply (included)
Power	
Dimensions	34(H) x 128(W) x 94(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1721	\$149.00	\$133.95	\$118.95

SIGHT & SOUND

HDMI CONVERTERS & ADAPTORS

HDMI CONVERTERS (CONTINUED)

HDMI to VGA + Stereo Audio Converter

Convert a HDMI source such as a Blu-ray player to a VGA display. This unit will also convert the audio stream from HDMI to analogue audio which can be output to some speakers or headphones using the 3.5mm audio socket. No power supply is required as it's powered by the HDMI signal.

Specifications	AC-1724
HDMI input formats	480p, 576p, 720p, 1080p
VGA video output format	480p (720x480), 576p (720 x 576), 720p (1280x720), 1080p (1920x1080)
Frequency	50/60Hz
Cable Length	175mm
Dimensions	55(L) x 41(W) x 17(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1724	\$27.95	\$25.15	\$22.35

3G SDI to HDMI Converter

These converters allow conversion from HDMI to 3G SDI signals and vice versa. Conversion of broadcast quality 3G SDI video signals means common HDMI equipped TVs and PC monitors can playback uncompressed 2.970Gbps digital footage from cameras supporting this format. Saves you from needing to buy a purpose built display or video card that accepts 3G SDI signals. They are also backwards compatible with lower bandwidth SD and HD SDI signals. Security cameras are beginning to adopt 3G SDI standard due to the vastly superior image quality they can produce. The ability of SDI cables to run up to 100m without a booster makes them ideal for security use. This also provides an alternative way transmit HDMI over long distances, simply use AC-1729 as the transmitter with AC-1727 as the receiver.

Two models available:

3G SDI to HDMI CONVERTER - AC-1727

- Operation at 2.970Gbps, 1.485Gbps and 270Mbps
- Supports SMPTE 425M, SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- Equalized and re-clocked loop output Integrated audio de-embedder for a maximum of 8 channel, 48 kHz audio
- Conversion from SMPTE 425M level B to Level A 1080p 50/59.94/60 4:2:2 10-bit



Specifications	AC-1727
Supported input/output resolutions	480i, 576i, 720p @ 50/60Hz, 1080i @ 50/60Hz, 1080p @ 24/25/30/50/60Hz
Input	Locking BNC SDI and DC
Output	HDMI
Power consumption	5W
Dimensions	80(L) x 43(W) x 23(D)mm

HDMI to 3G SDI CONVERTER - AC-1729

- SDI interface operates at bitrates of 2.970 Gbit/s, 2.970/1.001 Gbit/s, 1.485 Gbit/s, 1.485/1.001 Gbit/s and 270 Mb/s.
- Supports SDI output distance up to 100 metres (3G-SDI), 200 metres (HD-SDI), or 300 metres (SD-SDI)



Specifications	AC-1729
Supported input/output resolutions	480i, 576i, 720p @ 50/59.94/60, 1080i @ 50/59.94/60, 1080p @ 23.97/24/25/29.97/30/50/59.94/60
Input	HDMI
Output	BNC SDI
Power consumption	5W
Dimensions	80(L) x 43(W) x 23(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
3G SDI to HDMI Converter	AC-1727	\$109.00	\$89.95	\$79.95
HDMI to 3G SDI Converter	AC-1729	\$109.00	\$89.95	\$79.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



MHL to HDMI Converter with 11 Pin Samsung® Adaptor

Mobile High-Definition Link (MHL) is a new feature built into popular Smartphone and Tablet devices, which enables full HD 1080p video output from the Micro-B USB port. Connect this MHL to HDMI Converter to your HDTV (HDMI cable not included) to view full 1080p video at 30/60Hz or mirror everything on and from your MHL equipped device. Supplied with an 11 Pin Micro-B Adaptor for use on Samsung® S3/4 or Note 2.

The converter requires USB power (power cable not included) which can connect to a USB power adaptor or from a USB port on an HDTV.

- Supports resolutions up to 1080p @ 30/60Hz
- Supports device mirroring
- Supports most Android Smartphones & Tablets
- Lead Length: 90(L)mm
- Dimensions: 53(L) x 28(W) x 11(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	WQ-7424	\$24.95	\$22.35	\$19.70

HDMI UPSCALERS

In-Line HDMI Resolution Upscaler - 720p/1080p to UHD4K

Upscale 720p or 1080p video/audio content from a HDMI source to a new 4K TV that lacks a built-in upscaling feature. Upscaling is the process of increasing the resolution, while keeping pixelation to a minimum by calculating where new pixels should be located. This device also includes a HDMI micro B female port allowing your laptop or Tablet connection to a 4K screen. Totally inline so there's no need for an external power supply.

- Upscaled 720p/1080p/30Hz to 4K x 2K (4096x2160) /30Hz
- HDMI A Plug to HDMI A Socket
- Supports HDMI 1.4a standard
- Supports 3D video and HDCP
- Dimensions: 60(L) x 60(W) x 16(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1750	\$69.95	\$62.95	\$55.95

VGA & R/L Audio to HDMI Scaler Converter

Combines the audio and upscale the VGA output signal on a computer to 1280 x 720p for optimum viewing on a HDTV. Ideal for computers that only have a VGA output.

- HDMI resolution fixed to 1280x720p
- HDMI 165MHz/1.65Gbps per ch (6.75Gbps total)
- HDMI 8 bit per channel

Signal inputs/outputs:

- Input signal: VGA, R/L audio
- Output video signal: HDMI 720p
- VGA resolutions:
 - 640 x 480 at 60/72/75/85Hz
 - 800 x 600 at 60/72/75/85Hz
 - 1024 x 768 at 60/70/75/85Hz
 - 1280 x 720 at 60Hz
 - 1280 x 768 at 60/70/75/85Hz
 - 1280 x 800 at 60/70/75Hz
 - 1280 x 960 at 60Hz, 1280 x 1024 at 60Hz
 - 1440 x 900 at 60/75/85Hz, 1920 x 1080 at 60Hz
 - 1920 x 1200 at 60Hz, 1920 x 1440 at 60Hz
- Vertical freq range: 50/60Hz
- Video amp bandwidth: 1.65Gbps/165MHz
- Weight: 0.68kgs
- Dimensions: 88(L) x 68(W) x 25.5(H)mm

*Note: It is possible that several resolutions are limited on a few displays



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1617	\$99.95	\$89.95	\$79.95

RELATED PRODUCTS

FROM
\$59.95
AR-1828



INFRARED EXTENDERS P357

FROM
\$4.95
AR-1415



MINI SCREEN CLEANER P306

FROM
\$9.95
WV-7914



HDMI CABLES P354

FROM
\$18.95
WC-7586



VGA CABLE P328

HDMI ADAPTORS

DVI-D TO HDMI CABLE

- HDMI to DVI-D connector



CONCORD

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7407	\$24.95	\$22.35	\$19.70
3.0m	WQ-7406	\$34.95	\$31.45	\$27.90

HDMI 1.4 TO MICRO D PLUG LEAD 2M

HDMI to Micro D plug with 2m lead.



WQ-7911

DISPLAY PORT PLUG TO HDMI SOCKET



WQ-7422

All HDMI leads high speed with ethernet



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WQ-7422	\$29.95	\$26.95	\$23.70
2.0m	WQ-7911	\$34.95	\$31.45	\$27.90

Micro HDMI Plug to HDMI Socket Adaptor

Connects your Smartphone, camera or other device with micro HDMI socket to any TV with a HDMI connection.

- Colour: Black
- Gold plated connectors



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3649	\$9.95	\$8.75	\$7.75

HDMI Plug to Socket Swivel Adaptor

Connect HDMI cables where space is an issue such as wall mounted TV's with this adaptor which swivels up to 180°.

- Gold plated connectors



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3647	\$12.95	\$11.35	\$10.35

HDMI Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI Socket to Socket	PA-3640	\$16.95	\$15.25	\$13.55
HDMI Plug to DVI-D	PA-3642	\$14.95	\$13.45	\$11.95
HDMI Socket to DVI-D Plug Adaptor	PA-3644	\$14.95	\$13.45	\$11.95
Mini HDMI Plug to HDMI Socket Adaptor	PA-3645	\$9.95	\$8.75	\$7.75

HDMI IN-LINE ESD PROTECTION

HDMI Port/Buffer Protector

An intelligent device to help protect a HDMI port against static shocks, surges and lightning strikes. It also protects HDMI 5V out in case there is accidental short to GND and spark voltage current strike.

- HDCP compliant/EDID pass through
- Dimensions: 39(H) x 20(W) x 11(D)mm



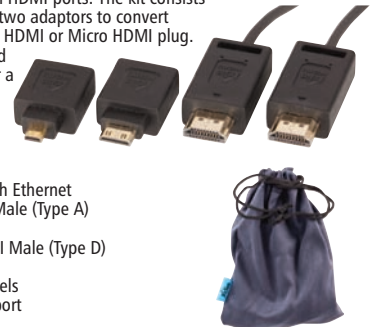
Cat.	Qty 1+	Qty 4+	Qty 10+
AC-1738	\$24.95	\$22.50	\$19.95

HDMI RETRACTABLE LEAD & TRAVEL KIT

HDMI Multimedia Travel Kit

A handy HDMI travel kit for connecting Tablets, Smartphones, cameras, or laptops to displays with HDMI ports. The kit consists of a standard 1.2m HDMI lead and two adaptors to convert one end of the lead to either a Mini HDMI or Micro HDMI plug. Includes a travel pouch for your lead and adaptors as well as a pouch for a Smartphone or camera.

- 24K Gold Plated Connectors
- 1.2m HDMI lead
- HDMI 1.4 compatible
- HDMI High Speed (10.2Gbps) with Ethernet
- Mini HDMI Adaptor: Mini HDMI Male (Type A) to HDMI Female (Type A)
- Micro HDMI Adaptor: Micro HDMI Male (Type D) to HDMI Female (Type A)
- Resolution up to 4092 x 2160 pixels
- 48-bit colour and full HD 3D support
- Supports Dolby 7.1



Cat.	Qty 1+	Qty 4+	Qty 10+
WC-7746	\$24.95	\$22.35	\$19.70

MONTHLY SPECIALS

Look out for our monthly promotions in store now!



Workbench sent to us by: Michael Jaycar Store: Sunshine

My kitchen bench may not be the most serviceable, however, it's practical and I know exactly where everything is...!!!! :)

For more details, visit:

www.jaycar.com.au/workbench

RELATED PRODUCTS

FROM
\$4.95
HP-1210



CABLE TIES

P208

FROM
\$7.95
PS-0295



RECESSED WALL PLATES

P366

FROM
\$149.00
AR-1914



HDMI TO TV CONVERTER

P359

FROM
\$74.95
AC-1730



HDMI EXTENDERS

P355

HDMI LEADS

Use	Quality	Connector	to	Connector	Length	Cat.	Page	
Video	Bargain	HDMI	Plug	HDMI	Plug	1.5m	WV-7914	354
Video	Good	HDMI	Plug	HDMI	Plug	1.5m	WV-7915	354
Video	Good	HDMI	Plug	HDMI	Plug	3.0m	WV-7916	354
Video	Good	HDMI	Plug	HDMI	Plug	5.0m	WV-7917	354
Video	Best	HDMI	Plug	HDMI	Plug	0.5m	WQ-7906	354
Video	Best	HDMI	Plug	HDMI	Plug	1.5m	WQ-7900	354
Video	Best	HDMI	Plug	HDMI	Plug	3.0m	WQ-7902	354
Video	Best	HDMI	Plug	HDMI	Plug	5.0m	WQ-7904	354

Bargain HDMI Lead - 1.5m

At this price, you don't have any excuse not to take advantage of HDMI in your AV system. 1.5m, HDMI Standard with Ethernet. What a bargain! Made from 99.99% pure copper, with triple layer shielding & nickel plated connectors. Supports 1080p

- HDMI 1.4 compliant

All HDMI leads high speed with ethernet



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7914	\$9.95	\$8.75	\$7.75

HDMI Lead with Rotating Plugs

HDMI cable with a difference - the plug on each end of the cable rotates through 180° to accommodate whatever installation challenge you have.

- 1.5m length
- HDMI 1.3 compliant



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7401	\$14.95	\$13.35	\$11.70

Economy HDMI 1.4 Leads

HDMI leads needn't cost an arm and a leg. If your budget doesn't extend too far, these leads are a cost-effective solution without compromising quality or performance. All have gold plated connectors and have HDMI 1.4 Standard with Ethernet classification.

All HDMI leads high speed with ethernet



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7915	\$19.95	\$17.70	\$15.70
3.0m	WV-7916	\$24.95	\$22.35	\$19.70
5.0m	WV-7917	\$39.95	\$35.90	\$31.90

Workbench sent to us by: Kerry Jaycar Store: Clovelly Park

My desk and workbench with several projects.

Setting up a Variable Speed drive for my lathe and the construction of a Stirling heat fan. My oscilloscopes and shed sound system are also visible.

For more details, visit:
www.jaycar.com.au/workbench



Use	Quality	Connector	to	Connector	Length	Cat.	Page
Video	Best	HDMI Plug	HDMI	Plug	10.0m	WQ-7905	354
Video	Best	HDMI (amp) Plug	HDMI (amp)	Plug	10.0m	WQ-7430	354
Video	Best	HDMI (amp) Plug	HDMI (amp)	Plug	15.0m	WQ-7432	354
Video	Best	HDMI (amp) Plug	HDMI (amp)	Plug	20.0m	WQ-7434	354
Video	Best	HDMI (amp) Plug	HDMI (amp)	Plug	30.0m	WQ-7436	354
Video	Best	HDMI Swivel Plug	HDMI	Swivel Plug	1.5m	WQ-7401	354
Video	Best	Display Port Plug	HDMI	Socket	3.0m	WQ-7412	354

High Quality HDMI 2.0 Leads

These are our premium HDMI 2.0 High Speed with Ethernet cables. They feature heavily plated 24K gold plated connectors and oxygen-free heavy copper cabling. Each plug is solidly constructed for frequent, reliable use. Also featured are high quality moulded strain-relief cord grommets and a braided sheath to protect against wear. They don't have magical properties, but what you put in one end will come out the other...and that's all you need them to do.

- HDMI High Speed with Ethernet



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7906	\$24.95	\$22.35	\$19.70
1.5m	WQ-7900	\$29.95	\$26.90	\$23.70
3.0m	WQ-7902	\$39.95	\$35.90	\$31.90
5.0m	WQ-7904	\$49.95	\$44.90	\$39.90
10m	WQ-7905	\$79.95	\$71.95	\$63.95

Amplified HDMI Leads

After about 5 metres HDMI signals tend to degrade. Pixels get missed and you may notice artefacts known as 'sparkles' on your TV when the receiving unit simply can't re-assemble the digital data correctly. These amplified HDMI leads overcome this limitation allowing you much longer HDMI cable runs.

- Powered from the HDMI port
- HDMI High Speed with Ethernet
- HDMI 1.4 Compatible



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	WQ-7430	\$79.95	\$71.95	\$63.95
15m	WQ-7432	\$99.95	\$89.95	\$79.95
20m	WQ-7434	\$129.00	\$115.95	\$102.95
30m	WQ-7436	\$149.00	\$133.95	\$118.95

HDMI Plug to Type C HDMI Plug

Type A plug to Type C or 'Mini' HDMI plug cable for connection to portable HDMI devices.

- Gold plated shield/24K gold contacts
- Internal dual strain relief
- Triple shielded
- Nitrogen gas injected dielectric
- RoHS & HDMI v1.3 compliant



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WQ-7412	\$34.95	\$31.45	\$27.90

RELATED PRODUCTS

FROM
\$6.15
HP-1218



CABLE TIDY PRODUCTS P208

FROM
\$9.95
HP-1228



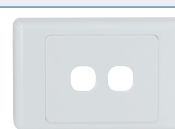
DESK GROMMET P206

FROM
\$4.95
HP-1210



CABLE TIES P208

FROM
\$5.95
YN-8016



WALLPLATES P227

HDMI EXTENDERS

HDMI EXTENDER COMPARISON GUIDE

If you can get a slightly degraded digital signal early enough, you can amplify it (slightly) and extend the range of the cable with no loss. (Not like analogue boosters.) That is why we are happy to offer extenders up to 100 metres! This would simply not be possible (in an economic way) with an analogue system. So, once again with the fantastic HDMI standards, you can enjoy all sorts of benefits with Jaycar HDMI products.



Use our selection guide to help choose...

	AC-1732	AC-1736	AC-1730	AC-1734	AC-1740
Transmission over	Cat5e/ 6	Cat5e/ 6	Cat5e/ 6	Cat5e/ 6	Coax
Maximum Range*	50m	70m	30m	100m	100m
HDMI Version	1.3b	1.4	1.3b	1.3b	1.3b
HDCP Version	1.1	1.4	1.1	1.1	1.1
Max Resolution	1080p	4K	1080p	1080p	1080p
No of Transmission cables	1	1	2	1	1
IR Frequency	20kHz - 60kHz	20kHz - 60kHz	20kHz - 60kHz	20kHz - 60kHz	20kHz - 60kHz
Power supply included	✓	✓	✓	✓	✓
Page	355	355	355	356	356

HDMI Over 1 x Cat5e/6 - 50m with IR Extender

Transmit HDMI signals over a single Cat5e/6 cable at distances up to 50m. This may be preferable to long runs of HDMI cable since HDMI cables are more expensive, troublesome to feed through walls, can't be bought as rolls and can't be crimped (or can with great difficulty!). Cat 5e/6 is cheap, flexible and mouldable making it ideal for extending HDMI for use in the home, in lecture theatres, or in retail environments. This model also transmits IR signals through the Ethernet cable allowing you to use your remote controls when not in front of the transmitting unit such as a Blu-ray player. Both transmitter and receiver requires a 5VDC power supply (supplied).

- Embedded IR control path
- HDMI 1.3b and HDCP 1.1/DVI1.1 compliant
- Achieve 1080p from the sources up to 50m using Cat6 or 40m using Cat5e
- Can support longer distances (may incur resolution degrading)
- Range: 50m
- IR Frequency: 20kHz - 60kHz
- Video support: 480i / 480p / 720p / 1080i / 1080p
- Audio support: LCPM, Dolby True HD & DTS Master Audio, 7.1 compliant
- Input: 1 x RJ45, 1 x 3.5mm (IR extender)
- Output: 1 x HDMI, 1 x 3.5mm (IR extender)
- Dimensions: 100(L) x 65(W) x 25(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
AC-1732		\$149.00	\$133.95	\$118.95

HDMI UHD4K Over 1 x Cat 6 - 40m with IR Extender

Extend UHD4K HDMI signals to a display 40m away or 1080p signals up to 70m from a HDMI source. This extender converts standard HDMI signals to HDBaseT signals and transfers them over a common Cat 6 cable. This is more affordable than long HDMI cable runs and allows for greater distances between a display and source. Includes bidirectional IR control, so the source or display can be controlled from either end with your remote. Ideal for lecture theatres, shopping centres, or reception areas.

- Transmission distance:
- 70 metres: 1080p at 60Hz 36bit; 3D 1080p at 30Hz 36bit;
 - 40 metres: 1080p at 60Hz 48bit; 1080p at 120Hz 24bit; 3D 1080p at 60Hz 36bit; 4K x 2K@30Hz@24bit



Specifications:
HDMI 1.4 supported
Power consumption max: 20W
IR Frequency: 20kHz - 60kHz
Video support: 480i / 480p / 720p / 1080i / 1080p / 4K
Audio support: LCPM, Dolby True HD & DTS Master Audio, 7.1 compliant
HDMI receiver: 1x HDMI Female port/1 x CAT6, 1x IR Transmitter/1x IR Receiver
HDMI transmitter: 1x HDMI Female port/1 x CAT6, 1x IR Transmitter/1x IR Receiver
Dimensions: 65(W) x 100(D) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
AC-1736		\$329.00	\$289.00	\$259.00

HDMI Over 2 x Cat5e/6 - 30m with IR Extender

Transmit HDMI video/audio and IR over distances up to 30m over two common Cat6 cables. This is a reliable and cost-effective method for outputting a HDMI source to a distant display. Perfect for lecture halls, home theatres, or video conference rooms. Only 1 of the extenders require a 5VDC power supply (supplied).

- Embedded IR control path
- HDMI 1.3b and HDCP 1.1/DVI1.1 compliant
- Achieve 1080p from the sources up to 30m using Cat6 or 20m using Cat5e
- Can support longer distances (may incur resolution degrading)
- Range: 30m
- IR Frequency: 20kHz - 60kHz
- Video support: 480i / 480p / 720p / 1080i / 1080p
- Audio support: LCPM, Dolby True HD & DTS Master Audio, 7.1 compliant
- Equalisation: 8-level digital on RX
- Input: 1 x RJ45, 1 x 3.5mm (IR extender)
- Output: 1 x HDMI, 1 x 3.5mm (IR extender)
- Dimensions: 100(L) x 65(W) x 25(H)mm



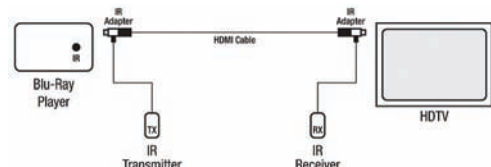
	Cat.	Qty 1+	Qty 4+	Qty 10+
AC-1730		\$74.95	\$67.50	\$59.95

Wideband Infrared Extender Over HDMI

This infrared extender repeats the IR signal from your remote control over the existing high-speed HDMI cable. This means you can control the AV source (Blu-ray, DVD player, etc.) in a cabinet or other room from in front of the TV screen. The two small HDMI adaptors attach at each end of the HDMI cable and derive their power from the HDMI port so no external power supply is needed. An IR receiver and transmitter on 1.5m leads plug into these adaptors. The system handles 1080p Full HD 3D, and supports wideband IR signals from modern remote controls.



- Package includes:
- 2 x HDMI Adaptors
 - IR Transmitter with 1.5m cable
 - IR Receiver Pigtail with 1.5m cable
 - Dimensions: 20(W) x 15(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
AC-1744		\$49.95	\$44.90	\$39.90

HDMI EXTENDERS (CONTINUED)

TCP/IP Cat5e HDMI Extender - 100m with IR Repeater

Utilise affordable and flexible Cat5e/Cat6 cables to join a HDMI source to a display up to 100m away. Doing so with a long HDMI cable can be expensive or result in display issues due to limitations with the HDMI standard. This device makes use of the TCP/IP protocol used for computer networking, so you get the added bonus of being able to split a HDMI signal to multiple displays through a common home router or switch. (requires extra receivers available separately). An IR repeater is built-in allowing full use of your remote control over these long distances.

- HDMI 1.3, HDCP 1.1, DVI 1.1 compliant
- Supports Deep Colour up to 12 bits
- Supports IR re-transmitting so remote controls can be used

Cable range for resolution:

- Cat 5e: 20m, 1080p / Cat6: 100m, 1080p



Specifications	AC-1734
Frequency bandwidth	2.25Gbps (single link)
Range	100m Cat6
IR Frequency	20kHz - 60kHz
Video support	480i / 480p / 720p / 1080i / 1080p
Audio support	LPCM, Dolby True HD and DTS Master Audio, 7.1 compliant
Equalisation	8-level digital on RX
Input	1 x RJ45, 1 x 3.5mm (IR extender)
Output	1 x HDMI, 1 x 3.5mm (IR extender)
Dimensions	100(L) x 65(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI Extender	AC-1734	\$179.00	\$160.95	\$142.95
Spare TCP/IP HDMI Receiver	AC-1735	\$99.95	\$89.95	\$79.95

HDMI Over Coax - 100m with IR Extender

HDMI extender over single coaxial cable with IR control is an ideal method to transmit HDMI signal over long distances. This device is an alternative to expensive HDMI amplified cables and allows you to use your existing coaxial cables/sockets already wired in your home or office. The kit comprises of a transmitter, receiver and two power supplies. The HDMI source, whether it is set-top box, DVD player, or gaming console, connects to the transmitter box with a HDMI cable and the receiver box to the HDTV display. It supports digital video formats in Deep Colour Mode at up to 36 bits (12bits/colour) and 48kHz LPCM Digital audio. It also equalises and recovers incoming TMDS data before re-transmitting it in high quality, regardless of the incoming signal quality. Supplied with 2 x mains adaptors.



- Compliant with HDMI 1.3, HDCP 1.1 standards
- Supports digital video formats in Deep Colour Mode and 48kHz LPCM Digital audio
- Equalises and recovers incoming TMDS data
- Efficient IR control system, IR transport channel can be forward or backward
- ESD Protection

Specifications	AC-1740
Range	100m
HDMI Transmitter ports	1 x HDMI, 1x IR Tx, 1x BNC
HDMI Receiver ports	1 x HDMI, 1x IR Rx, 1x BNC
Power Supply	2x 5VDC 1A
Dimensions	80(L) x 41(W) x 25(D)mm
Weight	150g

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1740	\$329.00	\$299.00	\$265.00

WIRELESS AV SENDERS

Wireless AV senders transmit video and 2 channel audio across short distances in, say, an office or home. They have been around for over 10 years now. You may be wondering why these still exist with the dominance of Wi-Fi, Bluetooth, etc..

They still have their place as they work fantastically well. They use digital RF encoding on the 2.4 and 5.8GHz bands and are ideal if you want to send an AV, Xbox®, PS3 etc. signal from one room to another room or several others.

Digital technology renders them quite immune to interference - both to you and from you. All models feature infrared repeaters so you can change channel and operate other IR controlled gear from the other room.



Wireless 2.4GHz DIGITAL HDMI AV Sender/Receiver

A low cost solution AV sender designed to transmit high definition audio and video signals from your HD equipment to your HDTV or HD monitor without the use of long cable runs. Simply connect a HDMI cable from the transmitter to your HD device (Blu-Ray player, set-top box), then connect another HDMI lead from your receiver to your HDTV or HD monitor and you're ready to go. There's also an IR receiver/extender built-in so you can also use your remote to control the source from another room. Couldn't be easier!

- Transmit clear 1080p resolution video
- Security ID coded communication ensure privacy
- 2 x 1m HDMI leads included
- 5VDC Power supplies included
- Video modulation/demodulation: BPSK, QPSK, 16-QAM



Specifications	AR-1871
Channel switching	FHSS mode up to 80 channels
RF bandwidth	12Mbps
Transmission range	100m clear line of sight
Video Receiver	
Supply voltage	5VDC
Supply current	180mA
Input Jack	HDMI
Antenna gain	5dBi
Output image resolution	Up to 1080p
Dimensions	151(L) x 116(W) x 26(H)mm
Video Transmitter	
Supply voltage	5VDC
Supply current	180mA
Input Jack	HDMI
Antenna gain	5dBi
Dimensions	151(L) x 116(W) x 26(H)mm

Wireless 5.8GHz AV Sender/Receiver with Wideband IR Extender

Allows you to send your Pay TV reception (or any other video source) to any part of the house. Includes a wideband IR remote control extender so it will cope with even the fussiest remote controls. 5.8GHz transmission frequency ensures freedom from wireless network interference. Includes power supplies, AV cables and extension IR LED.

- Video: Composite or S-video
- Audio: Stereo RCA
- Range: 60m (line of sight)



Specifications	AR-1913
Transmitter	
Output Level	13dBm
Operating Frequency	5790, 5828, 5847, 5866MHz
Power	12VDC 250mA
IR Transmitter/Receiver	
Operating Frequency	433.92MHz
IR Carrier Frequency	38/56kHz Selectable
Effective range	60m clear line of sight
Dimensions	110(W) x 105(D) x 38(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Transmitter/Receiver	AR-1913	\$109.00	\$97.95	\$86.95
Spare Receiver	AR-1916	\$64.95	\$58.45	\$51.95

Wireless 5.8GHz 1080p HDMI AV Sender/Receiver Kit

The latest in our range of HDMI AV senders. Will allow you to send your pay TV reception (or any other HDMI video source) to any part of the house. Includes a HDMI pass-through so you can continue watching the video source on the parent television without having to use a splitter. 5.8GHz transmission frequency ensures freedom from wireless network interference. This unit includes IR remote extender capability and will support up to 1080p transmission standard.

- Video: HDMI up to 1080p
- Range: 30m (line of sight)
- Wi-Fi Standard: IEEE 802.11n WLAN
- Power Supply: 2 x 5VDC 1000mA included
- IR receiver and IR emitter probes included
- HDMI cables not included



Specifications	AR-1915
Frequency	Wi-Fi 5G band
Wi-Fi Standard	IEEE 802.11n WLAN
IR Return Range	Fullband 30-60kHz
Channel Bandwidth	20MHz / 40MHz
Distance	max 30m line of sight
Antenna Diversity	Dual PCB antenna for Wi-Fi
Dimensions	84(W) x 82(D) x 11(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
T'mitter/Receiver	AR-1915	\$399.00	\$359.00	\$319.00

IR EXTENDERS

4 Channel Compact Infrared Extender Kit

Some aesthetically pleasing home theatre setups may not be 100% functional. Video/audio source devices like DVD players or stereo systems may be hidden in a cabinet to create a clean minimalist setup. In these scenarios, the signal from your remote control may be partially or completely blocked. To overcome this issue you can use this IR repeater extender kit which gives you full control of your devices all through a tiny little IR receiver.

Plug the IR receiver in (to receive signals from your remote), then connect up to 4 devices to the emitter outlets to easily control all those sources even if they're hidden from view. Thanks to the 3M adhesive backing on the IR receiver the emitters can be mounted in an unobtrusive location. The kit is 4 channel so will accept up to 4 source devices.

The IR repeater unit includes mounting holes and screws for attachment to your cabinet or other surface.

Kit includes:

- 2 x Dual IR emitter cables included
- 1 x IR receiver cable (to receive signals from remote controls)
- 1 x Mains plugpack
- 1 x Repeater/Extender

Specifications	AR-1828
Cable length	3m
Dimensions	103(L) x 32(W) x 16.5(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1828	\$59.95	\$53.95	\$47.90

IR Emitter Kit

Are your home entertainment components hidden away in a cabinet? This IR Emitter Kit solves the problem and is the perfect way to simplify the way you control your home entertainment system.

Many of today's home theatre / Hi-Fi systems are set up with the components hidden from view in a cabinet. Great for aesthetics and security, but what do you do when you want to use the remote? You have to keep the cabinet door open, which defeats the purpose of having the components in the cabinet in the first place. You can also use it to extend the range of your IR remote control to another room, or run all your remote controlled devices from a single sensor. This IR Emitter Kit acts like a hub, enabling you to interface all your IR remote controlled devices together and control them from a single sensor point.

Up to six IR emitters to be connected to a single point and you can add extra emitters as you need.

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Input IR Extender	AR-1812	\$79.95	\$71.95	\$63.95
Spare Emitters - Single	AR-1811	\$7.95	\$6.95	\$6.25
Spare Emitters - Dual	AR-1813	\$9.95	\$8.75	\$7.75
Spare IR Receiver	AR-1819	\$24.95	\$22.35	\$19.70

IR Remote Control Extender to Suit PayTV

Control a VCR, DVD/Blu-ray player, Hi-Fi and PayTV box (including most modern ones) from another room up to 30m away. This clever design uses a battery shaped transmitter that replaces one of the batteries in the remote control. With some electronic smarts it is able to repeat the Infrared signal to the receiver in the other room to control the AV equipment. The AAA sized transmitter includes a rechargeable battery, which lasts for months before needing a recharge, and a AA adaptor for use in larger remotes. The receiver can be either placed within 10m of the AV equipment or hidden away with the use of the small IR output cable.

- Supplied with transmitter, AA adaptor, two rechargeable 2/3AA batteries, receiver with power supply and IR output cable on a 1.8m lead.
- Foxtel® IQ compatible
- MySky® NZ compatible

Note: Remote control & standard batteries not included

Specifications	AR-1821
Transmission range	30m
Frequency	433.92MHz
Channels	3
Dimensions	100(Dia.) x 54(H)mm

ADDITIONAL TRANSMITTER & BATTERIES FOR AR-1821 REMOTE CONTROL EXTENDER

The AR-1821 Remote Control Extender has provision for a second remote control so you can control a second device, say a DVD or Blu-ray player, from the other room. This pack includes the transmitter, AA adaptor, two rechargeable 2/3AA batteries and IR output cable.

	Cat.	Qty 1+	Qty 2+	Qty 4+
Remote Control Extender	AR-1821	\$69.95	\$62.95	\$55.95
Additional TX Batteries	AR-1823	\$34.95	\$31.45	\$27.90

Foxtel® IQ2 Compatible IR Remote Control Extender

Allows you to control your video source devices like set top boxes, a Blu-Ray/DVD player, or even a HDMI switcher from another room. For those situations where you have a source transmitting to one or more TVs in different rooms.



Specifications	AR-1827
IR receiving range	>8m
Foxtel® IQ2 compatible	Yes
Transmission range	Up to 50m in clear sight
Carrier frequency	433.92MHz
Power supply	9VDC/150mA
Dimensions	70(L) x 50(W) x 20(H)mm

There is a receiver which plugs into the source device and a transmitter which picks up a signal from your remote control and relays it to the receiver.

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1827	\$54.95	\$49.45	\$43.90

Bidirectional IR Extender over Cat5e - 100m

Control AV equipment remotely from either the source or receiver that are up to 100m apart. You could, for example, change the media playing on a DVD player in another room whilst standing in front of the TV, or control the TV volume from the room with the media player. Suitable for domestic and commercial applications including digital signage, demo stations or video conferencing etc, and features wide band IR circuitry to suit modern PayTV remote controls. The kit includes two extenders with IR LED on a 3m lead, and a mains power adaptor. All you need is standard Cat5e UTP network cable.

- Bi-directional IR path
- 2 x IR emitter output connections
- Single power supply on either TX or RX unit
- Each device can be TX or RX

Specifications	AR-1809
IR frequency range	30kHz to 60kHz
IR lead length	3 metres
Power	12V/200mA (Mains adaptors inc)
Dimensions	75(L) x 64(W) x 29(H)mm
Weight	28g

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1809	\$84.95	\$76.45	\$67.95

Composite AV Cat5 Balun With IR Extender

Transmit crystal-clear audio and video signals over long distances via economical Cat5 cable. You can also use it for extending the range of your remote control. The wideband IR will receive signals from many types of remotes. Simply connect stereo audio and composite video to the transmitter and receiver, then hook up the IR sensors to your equipment.

- Signals can be transmitted up to 300 metres on UTP.

Specifications	QC-3681
Video	75 ohm unbalanced
Audio	600 ohm balanced
Bandwidth Video	DC - 12MHz
Audio	50Hz - 15kHz
Propagation distance	Up to 300m via UTP
Power requirements	12VDC 30mA max
Dimensions	64(W) x 73(D) x 29(H)mm

SPARE IR RECEIVER FOR CAT5 BALUNS

Spare or replacement receiver for

- QC-3681
- QC-3682
- QC-3685
- QC-3686

	Cat.	Qty 1+	Qty 4+	Qty 10+
Cat5 Balun	QC-3681	\$119.00	\$106.95	\$94.95
Spare IR Receiver	AR-1819	\$24.95	\$22.35	\$19.70

Infrared Panel Mount Receiver

Specifications	AR-1829
Cable length	3m
IR carrier frequency	34kHz to 60kHz
Mounting hole size	13mm
Dimensions	28(L) x 17(H)mm

Used for creating a clean, flush mounted IR receiver. Screw the thread into the wall & connect the 3.5mm plug to your source device.



	Cat.	Qty 1+
	AR-1829	\$9.95



SIGHT & SOUND REMOTE CONTROLS & TV VIEWING

IR EXTENDERS (CONTINUED)

USB IR Extender Kit

Easy to set up plug and play USB powered IR extender kit allows you to control AV devices behind closed doors or cabinets. Simply plug the USB into an available port of one of your AV devices and this feeds the power required for the attached IR receiver and transmitter. The multiple sensors inside the transmitter enable it to work effectively from a wide range of positions in front of your source product.

With a cable length of 3 metres, this kit supports wide reception frequency 20-60kHz. The receiver range can be up to 10 metres and the kit also works with multiple remote controls.

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1834	\$24.95	\$22.45	\$19.95



HDMI DONGLE

Wi-Fi HDMI Miracast Dongle - V2.0

Plug the Anycast into your TV's HDMI port and begin streaming content from your Smartphone/Tablet to your TV. It features a self explanatory screen mirroring function as well as DLNA and Airplay for an almost universal ability to stream media from a compatible device. Through the casting functionality, play YouTube, IMDB, videos and an innumerable number of other streaming services straight on your TV. A great solution for those without smart TVs, or who do have smart TVs with clunky interfaces.

- DDR3: 256MB
- Miracast: Supported
- DLNA: Supported
- AirMirror: Supported
- Airplay: Supported
- Online streaming: YouTube
- Take photos: Yes
- Online update: Yes
- CPU: Single core ARM Cortex Rockchip RK2928 1.2GHz
- Remote controller: Supported by phone/laptop/Tablet PC
- Supported systems: Android, iOS, Mac, Windows
- Supported video: AVI, DIVX, MKV, TS, DAT, MPG, MPEG1/2/3/4, MP4, RM, RMVB, WMV
- Supported audio format: MP1, MP2, MP3, WMA, OGG, ADPCM-WAV, PCM-WAV, AAC
- Supported picture format: JPG, BMP
- Supported phone systems: Android: 4.0 or higher / iPhone: iOS 7.0 or higher
- iPad: iOS 6.0 or higher
- Outputs: 1 x HDMI 1.4 / Input: 1x Micro USB port (for powering the device)



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1922	\$54.95	\$49.45	\$43.95

REMOTE CONTROLS

Remote Control for Recordable Digital Pay TV

Replace your lost or broken pay TV remote control at a fraction of the cost of the genuine brand names, or just keep a spare. Including buttons to control the special record, live pause and playback features of the latest recordable digital Pay TV services, you will have complete control over your Recordable Pay TV subscription.

- Compatible with recordable pay TV set top boxes
- Operates all TV essential functions
- Includes controls for record, live pause and playback features
- Requires 2 x AA Batteries
- Approx 210mm long



NOT AVAILABLE IN NEW ZEALAND

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1737	\$19.95	\$17.70	\$15.70

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6 in 1 USB Programmable Universal Remote Control

Unlike a conventional universal remote control, the database of codes for this remote control is stored on, accessed and shared via your PC. Use the provided software for easy setup or to individually assign a function to each button. Regular updates ensure the database is up-to-date and that a new upgrade (a TV for example) doesn't render your remote control useless. Not only can it learn new IR codes, but should you forget the make and model of your device, it can search for a set of IR codes that best matches the remote control.

- Control up to 6 devices (TV, SAT, DVD/VCD, AUX)
- Database search, database import, export and upload
- Customisable or use original remote control settings
- Regular database updates
- IR code learning
- Up to 4 macro buttons
- Advanced IR code search
- Requires USB2.0, plug and play, no additional drivers required
- Requires 3 x AAA batteries (not included)
- USB cable supplied.
- Compatible with Windows 2000/XP/Vista/7
- Dimensions: 190(L) x 48(W) x 20(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1719	\$29.95	\$26.90	\$23.70

Rechargeable USB Learning Remote Control

Created to control up to 4 devices at once.

The AR-1720 is a new kind of remote that can be programmed for TV, DVD, Air conditioner and Satellite. Maintains codes for many brands and models of TVs, air conditioners and more. It can be programmed directly using the included USB cable to connect to your computer.

Simply go to the designated website listed in the user manual, input the brand name of your device, search for the model number and click the download the code for your remote control.

Features a colour LCD screen with built in rechargeable lithium battery.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1720	\$49.95	\$44.95	\$39.95

2.4GHz Air Mouse Remote Control

This Air Mouse remote works like a modern game controller - just wave it in the air to move the cursor. It also includes a touch pad for finer control. Transmission is via a 2.4GHz USB dongle. No installation is required, just plug in the dongle and away you go! Suitable for most TVs as well as Android® and other computer devices.

- PowerPoint and slideshow functions
- Unique highlight pen function
- Left and right mouse buttons
- Next and previous slide
- Requires 2 x AAA batteries
- Dimensions: 130(L) x 40(W) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1722	\$49.95	\$44.95	\$39.95

AIR CONDITIONER REMOTE

Universal Remote Control for Air Conditioners with Backlit LCD

A feature rich replacement for a lost or broken air-con remote. The unit has an easy to read blue backlit LCD for night control and all the buttons you'll need to control most functions of your air conditioner. Standard temperature controls, swing, vane, fan, timer, sleep mode and more are all featured on the control. This unit is compatible with most air conditioners capable of identifying with up to 2000 models. It also conveniently shows the time.

- Requires 2 x AAA batteries
- Includes mountable cradle for remote
- Switch between degrees Celsius and Fahrenheit display
- Dimensions: 165(L) x 55(W) x 25(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1731	\$24.95	\$22.35	\$19.70

SET TOP BOXES

HD Digital TV Set Top Box with USB Recording Playback

Digital and HD ready. This compact set top box unit receives crystal clear free-to-air digital TV in high definition. It incorporates a USB port for AV program recording as well as playback. Navigation is simple and easy with the full function remote control. Outputs are HDMI, component video and composite video.



- Selectable aspect ratio 4:3/16:9
- DVB-T & MPEG-2 HD & SD compliant
- Supports up to 1080i resolution
- Dimensions: 220(W) x 140(D) x 42(H)mm
- Spare remote: Cat. XC-4915 (sold separately)

Note: Not available in New Zealand

	Cat.	Qty 1+	Qty 4+	Qty 10+
HD Set top box	XC-4917	\$94.95	\$85.45	\$75.95
Spare Remote Control	XC-4915	\$9.95	\$8.75	\$7.75

HDTV TO SMART TV CONVERTER

HDMI Display Receiver

Turn your HDTV into a Smart TV! This clever device allows you to stream videos, music and photos wirelessly from your computer or DLNA enabled Android Smartphone or Tablet. Connect using HDMI to your TV and access and control media, including browsing the Internet on your Windows or Mac® using a USB mouse and/or keyboard (available separately). It also smartly doubles as a Wi-Fi router, just connect it to your current router and you'll be able to access the internet on Wi-Fi enabled laptops or Smartphones. Supplied with software and power adaptor. HDMI cable available separately.



- Requires 802.11n capable Windows/Mac® PC for optimal wireless performance
- DLNA Supported media
 - Video: AVI, ASF, WMV, MKV, MP4, MOV, 3GP, TS, RM, FLV, MPG
 - Audio: LPCM, MP3, AAC, WMA
 - Image: JPEG, PNG
- Dimensions: 130(L) x 64(D) x 20(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1914	\$149.00	\$133.95	\$118.95

AUDIO CONVERTERS

Coaxial to TOSLINK Digital Audio Converter

Achieve compatibility between devices which have different digital audio inputs and outputs. Allows you to connect a DVD Player, video game console or sound card with a coaxial digital output to a home theatre receiver or digital recorder that only has TOSLINK optical input or vice-versa depending on which models you buy. For longer cable runs, you can input power to avoid signal loss and degradation.

Specifications	AC-1599
Coaxial Digital Input	via RCA jack
Optical Digital Output	via TOSLINK
Sample Rates	44.1 kHz/48 kHz/96 kHz/192 kHz
Weight	approx. 33 grams
Power Supply	DC 6V / 250mA
Dimensions	72(W) x 48(L) x 23(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Coaxial to TOSLINK	AC-1599	\$34.95	\$31.45	\$27.90

Analogue to Digital Audio Converter

Accepts stereo audio input from 2 x RCA (red/white) leads and outputs to a high quality noise free digital format for connection to a modern sound system. It outputs to S/PDIF TOSLINK optical and S/PDIF RCA coaxial, both of these can be used simultaneously. Audio sample rates can be switched manually between 48kHz and 192kHz and the unit supports industry standard uncompressed 2-channel LPCM digital audio signal output. Perfect for connecting devices that lack digital audio to speaker systems which only accept digital audio.

- Supports industry standard uncompressed 2-channel LPCM digital audio signal output



Specifications	AC-1596
Input	Stereo line in (dual RCA jacks)
Output	S/PDIF TOSLINK optical & S/PDIF RCA coaxial
Supported sample rate	48kHz/192kHz
Power supply	6VDC included
Dimensions	80(L) x 70(W) x 27(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1596	\$69.95	\$62.95	\$55.95

AC3 & DTS Digital to Analogue Audio Converter

For audio enthusiasts who demand the highest level of conversion when connecting digital audio sources to analogue speaker systems. This converter will accept input via RCA coaxial, 2 x SPDIF, or 3.5mm stereo audio and output any of them to 5.1 channel analogue (6 x RCA). This will allow you to translate your surround sound digital source to an older speaker system with minimal fuss. Perfect for game consoles such as the XBOX360, Playstation 3, Blu-Ray players and more.



- 24-bit Audio DSP
- 96kHz Digital Receivers and 192kHz/24-bit AND & DAC
- Supports Dolby Digital AC-3 Dolby Pro-logic, DTS, PCM and other digital audio formats
- Multi channel audio Input: 2 x SPDIF, 1 x RCA Coaxial, 1 x 3.5mm stereo
- Outputs: 5.1 Channel Analogue (6 x RCA) or stereo
- Dimensions: 108(L) x 75(W) x 27(H)mm

	Cat.	Qty 1+
	AC-1634	\$79.95

AC3/DTS Digital Audio to Analogue Converter

Convert digital audio sources that use Dolby Digital AC3 Pro logic, DTS, PCM or other formats into 2.0 channel analogue audio output. This converter will accept input via TOSLINK/SPDIF or 1 x coaxial and output to 2 x RCA (L/R) and 3.5mm 2 channel analogue.

Specifications	AC-1658
Input	1 x TOSLINK/SPDIF, 1 x Coaxial
Output	2 x RCA (L/R), 1 x 3.5mm AUX
SNR	120dB
Degree of separation	85dB
Frequency response	20Hz - 20kHz
Dimensions	72(D) x 55(W) x 20(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1658	\$99.95	\$89.95	\$79.95

High Definition Audio Digital-to-Analogue Converter

A compact converter that takes a TOSLINK optical, SPDIF coaxial and converts it to standard analogue left and right stereo audio. Allows for digital audio devices to be interfaced to analogue components such as a power amplifier, receivers, powered speakers or headphones via standard RCA line level output.

- Bridge legacy sound system with digital sources
- Support up to 24bit / 192kHz via TOSLINK optical and SPDIF coaxial interface



Note: This DAC accepts 2 channel digital audio only and works with any PCM stream with Dolby Digital or DTS disabled

Specifications	AC-1631
Inputs	TOSLINK optical/SPDIF coaxial
Outputs	left and right stereo audio RCA
Bit Rate	16-24 bits
Sample Rate	32kHz/44.1kHz/48 kHz/96kHz/192kHz
Power supply	6VDC 250mA (included)
Dimensions	80(W) x 69(D) x 27(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1631	\$64.95	\$58.50	\$51.95

High Definition Audio Digital-to-Analogue Converter with USB Interface & Headphone Jack

The converter takes a TOSLINK optical, SPDIF coaxial or USB digital audio source and converts it to standard analogue left and right stereo audio. Allows for digital audio devices to be interfaced to analogue components such as a power amplifier, receivers, powered speakers or headphones via standard RCA line level output. It has a built in OP amp with adjustable volume control for personal listening through earphones or headphones.

- Bridge legacy sound system with digital sources
- Support up to 24bit / 192kHz via slink optical and SPDIF coaxial and USB interface
- Plug and play with Windows 7, XP & Vista
- Requires no additional drivers or software



Specifications	AC-1633
Inputs	USB / TOSLINK optical / SPDIF coaxial (Switchable)
Outputs	left and right stereo audio RCA and 3.5mm stereo headphone jack (Built-in OP headphone amplifier)
Bit Rate	16-bit to 24-bit
Sample Rate	32kHz / 44.1kHz / 48 kHz / 96kHz / 192kHz (via toslink optical) 32kHz / 44.1kHz / 48 kHz / 96kHz (via USB)
Power supply	5VDC 1A (included)
Dimensions	111(W) x 105(D) x 30(H)mm

Note: This DAC accepts 2 channel digital audio only, and works with any PCM stream with Dolby Digital or DTS disabled.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1633	\$99.95	\$89.95	\$79.95

SIGHT & SOUND SIGNAL SELECTORS & BALUNS

AUDIO SWITCHERS

3 Way Audio Selector

Many audio amplifiers don't provide enough inputs for all your components. Solve that problem easily with this 3-way audio selector. It takes up to three stereo RCA inputs and provides a single stereo RCA output. Easy-to-use pushbutton front panel.

- 3 stereo pairs of RCA inputs
- Dimensions: 133(W) x 42(H) x 85(D)mm

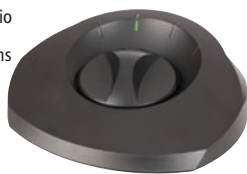


	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1655	\$15.95	\$14.35	\$12.70

4 Way Optical Switch Box with 1m Cable

Connect up to 4 digital optical home or portable audio components such as LCD, Blu-ray player, DVD player, satellite receiver, cable set top box, or gaming systems to your home theatre to your home theatre system. This selector allows you to switch from one component to another just by turning the selector dial - no more disconnecting and connecting cables or moving equipment around. Play any of the 4 components you connect and enjoy the output through your home theatre system or digital surround headphone system.

- Dimensions: 160(L) x 150(W) x 44(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1597	\$34.95	\$31.45	\$27.90

Battery Operated Phono Pre-Amp

A simple 9V battery powered preamp. Used for connecting products with magnetic pick-ups such as turntables to an amplifier. 2 RCA inputs and 2 RCA out. 1 x 9V battery required.

Specifications	AC-1649
Rated input level	3mV
Max input level	38mV
Input Impedance	50K ohms at 1,000Hz
Output Level	1.8VRMS
Output Impedance	50K ohms
S/N ratio	50dB
Dimensions	72(W) x 91(L) x 28(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1649	\$24.95	\$22.35	\$19.70

Turntable Preamp Switch Box

Many modern amplifiers do not have a phono input for a turntable. This preamplifier/switch box fixes that problem and also provides two selectable inputs to a stereo line level output which feeds into the auxilliary input on your stereo amplifier.

- RIAA compensation
- Requires 12VDC mains adaptor

Specifications	AC-1662
Input sensitivity	2.5mV
Input impedance	47k Ohm
Output	180mV
Current draw	10mA
Output impedance	47kOhm
Dimensions	160(L) x 100(D) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1662	\$24.95	\$22.35	\$19.70

ISOLATOR

Ground Loop Isolator (Stereo) RCA

Used to eliminate ground loop problems (usually manifested as a low frequency hum) in audio connections. Earthing brown ground wires sometimes helps even more. Secured to a solid object with cable ties. Very neat!



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AA-3084	\$9.95	\$8.75	\$7.75

AV SELECTORS & SWITCHERS

2 Way AV Selector Switch

Switch between two composite video and stereo audio sources. Easy push-button operation.



Back of unit



Specifications	AC-1650
Channel Separation	60dB @ 1kHz
Cross-talk	70dB @ 1kHz
Dimensions	135(W) x 50(D) x 32(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1650	\$12.95	\$11.35	\$10.35

4 Way AV Selector

Connect up to four AV devices such as DVD players, VCRs or gaming consoles with a single output to your TV and switch between them as required.

- Inputs can be either composite or S-video.
- Easy-to-use pushbutton front panel.
- Composite and S-video inputs
- Dimensions: 190(W) x 112(D) x 47(H)mm



Back of unit



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1652	\$24.95	\$22.35	\$19.70

AV AMPLIFIERS

4 Way AV Stereo Distribution Amplifier

Designed to split a stereo A/V signal across 4 channels without loss of image or sound quality. You can wire the rumpus room, outside entertainment area, bedrooms, lounge room or anywhere else you would like to access audio and video from a central source. You can also use it to record to up to four sources at the same time.

- 12VDC operated
- Mains plugpack included.
- Composite video input 1-3Vpp; 75 ohms
- Stereo audio input -20dB; 25k ohms
- 4 x Composite video outputs 1Vpp output; 75 ohms
- 4 x Stereo audio outputs
- RCA Input & output connectors
- Size: 176(W) x 90(H) x 25(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1646	\$59.95	\$53.95	\$47.95

AV BALUNS

Powered Cat5 VGA Baluns with Audio

Able to transmit VGA and audio signals across a standard UTP or STP CAT5 cable for distances up to 300 metres. Adjust the brightness and skew of the image with the peak and gain options.



Use for home or commercial applications, for example, classrooms, lecture halls, auditoriums, retail kiosks, video information displays, tradeshows, etc.

- Ideal for VGA monitors or LCD projection screens.
- Supports up to 1920 x 1200 pixels.
- Supplied as a sender and receiver pair with plug packs included.



Specifications	AC-1671
Power requirements	5VDC for both sender and receiver
Vertical freq range	60/75/85Hz
Supported resolutions	640X480, 800X600, 1024X768, 1280X720, 1280X768, 1280X960, 1280X1024, 1600X900, 1600X1200, 1920X1080, 1920X1200
Includes	2 x right angle mounting brackets for send unit
Sender Dimensions	100(L) x 65(W) x 26(H)mm
Receiver Dimensions	81(L) x 43(W) x 23(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
↑	AC-1671	\$129.00	\$115.95	\$102.95

AUDIO LEAD SELECTION GUIDE

Use	Quality	Connector	to	Connector	Length	Cat.	Page
Audio	Best	Stereo 3.5 Plug		RCA x 2 Plug	1.5m	WQ-7206	364
Audio	Best	Stereo 3.5 Plug		RCA x 2 Plug	3.0m	WQ-7208	364
Video	Best	RCA x 2 Plug		RCA x 2 Plug	0.5m	WQ-7227	364
Audio	Best	RCA x 2 Plug		RCA x 2 Plug	1.5m	WQ-7226	364
Audio	Best	RCA x 2 Plug		RCA x 2 Plug	3.0m	WQ-7228	364
Audio	Best	RCA x 2 Plug		RCA x 2 Plug	5.0m	WQ-7230	364
Audio	Best	RCA x 2 Plug		RCA x 2 Plug	10.0m	WQ-7232	364
Audio	Best	XLR 3 PIN Plug		XLR 3 PIN Socket	2.0m	WA-7041	362
Audio	Best	XLR 3 PIN Plug		XLR 3 PIN Socket	6.0m	WA-7042	362
Audio	Best	XLR 3 PIN Plug		XLR 3 PIN Socket	10.0m	WA-7043	362
Audio	Good	5 Pin DIN Plug		5 Pin DIN Plug	1.5m	WA-7000	361
Audio	Good	Stereo 2.5 Plug		Stereo 3.5 Plug	1.5m	WA-7004	361
Audio	Good	Mono 3.5 Plug		Mono 3.5 Plug	1.5m	WA-7006	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Plug	0.5m	WA-7007	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Plug	1.5m	WA-7008	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Plug	3.0m	WA-7009	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Plug	5.0m	WA-7005	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Plug	2.0m Slim	WA-7500	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Socket	3.0m	WA-7010	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Socket	3.0m Curly	WA-7012	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Socket	5.0m	WA-7011	361
Audio	Good	Stereo 3.5 Plug		RCA x 2 Plug	1.5m	WA-7014	361
Audio	Good	Stereo 3.5 Plug		RCA x 2 Plug	3.0m	WA-7015	361
Audio	Good	Stereo 3.5 Plug		RCA x 2 Plug	5.0m	WA-7017	361
Audio	Good	Stereo 3.5 Plug		RCA x 2 Plug	2.0m Slim	WA-7502	361
Audio	Good	Stereo 3.5 Plug		RCA x 2 Socket	300mm	WA-7016	361
Audio	Good	Stereo 3.5 Plug		Stereo 3.5 Socket	0.2m Slim	WA-7504	361

Use	Quality	Connector	to	Connector	Length	Cat.	Page
Audio	Good	Mono 6.5 Plug		Mono 6.5 R/A Plug	3.0m	WA-7024	362
Audio	Good	Mono 6.5 Plug		Mono 6.5 R/A Plug	6.0m Curly	WA-7026	362
Audio	Good	Mono 6.5 Plug		Mono 6.5 Socket	5.0m	WA-7030	362
Audio	Good	Mono 6.5 Plug		XLR 3 Pin Socket	6.0m	WA-7040	362
Audio	Good	Stereo 6.5 Plug		Stereo 6.5 Socket	6.0m Curly	WA-7046	362
Audio	Good	RCA Plug		RCA Plug	1.5m	WA-7050	362
Audio	Good	RCA Plug		RCA x 2 Plug	1.5m	WA-7054	362
Audio	Good	RCA Plug		RCA x 2 Socket	300mm	WA-7056	362
Audio	Good	RCA x 2 Plug		RCA x 2 Plug	1.5m	WA-7062	362
Audio	Good	RCA x 2 Plug		RCA x 2 Plug	3.0m	WA-7064	362
Audio	Good	RCA x 2 Plug		RCA x 2 Plug	5.0m	WA-7066	362
Audio	Good	RCA x 2 Plug		RCA x 2 Plug	10.0m	WA-7068	362
Audio	Good	RCA x 2 Plug		RCA x 2 Socket	1.5m	WA-7070	362
Audio	Good	RCA x 2 Plug		RCA x 2 Socket	3.0m	WA-7072	362
Audio	Good	RCA x 2 Plug		RCA x 2 Socket	5.0m	WA-7074	362
Audio	Good	RCA x 4 Plug		RCA x 4 Plug	1.5m	WA-7078	362
Audio	Good	RCA x 4 Plug		RCA x 4 Plug	5.0m	WA-7080	362
Audio	Good	RCA Plug		RCA Socket	3.0m	WA-7084	362
Audio	Good	RCA Plug		Mono 3.5 Plug	1.5m	WA-7088	362
Audio	Good	RCA x 2 Piggyback		RCA x 2 Plug	1.5m	WA-7090	362
Audio	Good	RCA x 2 Piggyback		RCA x 2 Plug	3.0m	WA-7091	362
Audio	Good	RCA Socket		RCA x 2 Plug	300mm	WA-7058	362
Audio	Good	Speakon Plug		Speakon Plug	5m	WA-7100	218
Audio	Good	Speakon Plug		Speakon Plug	10m	WA-7102	218
Audio	Good	XLR Plug		XLR Socket	6.0m	WQ-7292	362

AUDIO LEADS

Audio leads shown on this page are packaged in handy hanging storage blister display packs except where stated.

5 PIN DIN PLUG TO 5 PIN DIN PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7000	\$6.95	\$6.25	\$5.50

3.5MM MONO PLUG TO 3.5MM MONO PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7006	\$4.95	\$4.45	\$3.90

2.5MM STEREO PLUG TO 3.5MM STEREO PLUG

General purpose audio lead 2.5mm stereo plug - 3.5mm stereo plug. 1.5m long.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7004	\$4.95	\$4.45	\$3.90

3.5MM STEREO PLUG TO 3.5MM STEREO PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WA-7007	\$4.50	\$3.95	\$3.60
1.5m	WA-7008	\$4.95	\$4.45	\$3.90
3.0m	WA-7009	\$8.50	\$7.50	\$6.75
5.0m	WA-7005	\$9.95	\$8.75	\$7.75

SLIM 3.5MM STEREO LEADS

Slim design plugs ideal for use with Smartphones, MP3 players, and other small devices where bulky connectors are a hindrance.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WA-7500	\$9.95	\$8.75	\$7.75

3.5MM STEREO PLUG TO 3.5MM STEREO SOCKET



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WA-7010	\$6.95	\$6.25	\$5.50
Curly 3.0m	WA-7012	\$8.50	\$7.50	\$6.75
5.0m	WA-7011	\$9.95	\$8.75	\$7.75

SLIM 3.5MM STEREO PLUG TO 2 X 3.5MM STEREO SOCKET

• 200mm long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.2m	WA-7504	\$9.95	\$8.75	\$7.75

3.5MM STEREO PLUG TO 2 X RCA PLUGS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7014	\$6.50	\$5.75	\$4.95
3.0m	WA-7015	\$8.95	\$7.95	\$6.95
5.0m	WA-7017	\$9.95	\$8.75	\$7.75

SLIM 3.5MM STEREO PLUG TO 2 X RCA PLUG LEAD

• 2.0m long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WA-7502	\$12.95	\$11.35	\$10.35

3.5MM STEREO PLUG TO 2 X RCA SOCKETS

• 300mm long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm	WA-7016	\$5.50	\$4.90	\$4.30

3.5MM STEREO SOCKET TO 2 X RCA PLUGS

• 300mm long



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm	WA-7018	\$5.50	\$4.90	\$4.30

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

AUDIO LEADS (CONTINUED)

6.5MM MONO PLUG TO 6.5MM MONO R/A PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WA-7024	\$6.95	\$6.25	\$5.50

6.5MM MONO PLUG TO 6.5MM MONO SOCKET



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	WA-7030	\$8.95	\$7.95	\$6.95

6.5MM MONO PLUG TO 3 PIN XLR SOCKET



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WA-7040	\$19.95	\$17.95	\$15.95

3 PIN XLR TYPE PLUG TO 3 PIN XLR SOCKET



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WA-7041	\$11.95	\$10.70	\$9.50
6.0m	WA-7042	\$19.95	\$17.95	\$15.95
10.0m	WA-7043	\$29.95	\$26.95	\$23.95

RCA PLUG TO RCA PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7050	\$5.95	\$5.25	\$4.75

RCA PLUG TO 2 X RCA PLUGS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7054	\$5.95	\$5.25	\$4.75

2 X RCA PLUGS TO 2 X RCA SOCKETS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7070	\$6.50	\$5.75	\$4.95
3.0m	WA-7072	\$9.95	\$8.75	\$7.75
5.0m	WA-7074	\$11.95	\$10.70	\$9.50

RCA PLUG TO 2 X RCA SOCKETS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm	WA-7056	\$4.95	\$4.45	\$3.90

1 X RCA SOCKET TO 2 X RCA PLUGS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm	WA-7058	\$4.95	\$4.45	\$3.90

2 X RCA PLUGS TO 2 X RCA PLUGS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7062	\$6.95	\$6.25	\$5.50
3.0m	WA-7064	\$8.95	\$7.95	\$6.95
5.0m	WA-7066	\$10.95	\$9.75	\$8.75
10.0m	WA-7068	\$13.95	\$12.35	\$10.95

PIGGYBACK 2 X RCA TO RCA LEAD

Piggyback 2 x RCA to RCA audio lead 1.5m



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7090	\$9.95	\$8.75	\$7.75
3.0m	WA-7091	\$11.95	\$10.70	\$9.50

RCA PLUG TO RCA SOCKET



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WA-7084	\$6.50	\$5.75	\$4.95

RCA PLUG TO 3.5MM MONO PLUG



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7088	\$4.95	\$4.45	\$3.90

4 X RCA PLUGS TO 4 X RCA PLUGS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WA-7078	\$8.50	\$7.50	\$6.75
5.0m	WA-7080	\$14.95	\$13.35	\$11.70

SPEAKON AUDIO LEADS

Speakon connectors are the standard for speaker connections in PA and sound reinforcement applications, and if you're building or installing a system they're the only way to go. You could buy the cable and connectors and put them together, or buy these excellent ready-made cables.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	WA-7100	\$29.95	\$26.95	\$23.95
10.0m	WA-7102	\$44.95	\$40.45	\$35.90

SPEAKON LEAD SPLITTER 2 WAY

An adaptor that will split your stereo 4 core Speakon cable run to 2 x 2 pole left and right channels. A solution that cuts down on cable runs and costs dramatically.

- 1 x 4 pole Speakon plug to 2 x 2 pole Speakon plugs.
- Length 300mm.



Length	Cat.	Qty 1+
300mm	WA-7109	\$11.95

6.5MM MONO TO SPEAKON CABLE - 3M

Stage quality 6.5mm mono to Speakon cable for connecting small PA systems. 3m, super flexi cable.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WA-7108	\$16.95	\$14.95	\$13.35

SPEAKON LEAD EXTENDER

Connects Speakon leads together to extend cable runs as far as you need to. ABS construction.



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3689	\$12.95	\$11.35	\$10.35

INSTRUMENT LEADS

CURLY INSTRUMENT EXTENSION LEAD 6.5 STEREO PLUG TO 6.5 STEREO SOCKET 6M



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WA-7046	\$10.95	\$9.85	\$8.75

CURLY INSTRUMENT LEAD 6.5 MONO PLUG TO 6.5 MONO SOCKET 6M

Suitable for all musical instrument applications. Extends to 6 metres.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WA-7026	\$11.95	\$10.70	\$9.50

AMPHENOL INSTRUMENT CABLE 6 METRE

Suitable for guitar, bass or keyboard applications. Terminated with pro quality strain-relieved Amphenol 6.5mm plugs, 180 degree one end, right angle on the other.

- Gold plated.



Amphenol

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WQ-7290	\$34.95	\$31.45	\$27.90

AMPHENOL BALANCED MICROPHONE CABLE

Professional quality mic cable terminated with strain-relieved Amphenol connectors.

- XLR male to XLR female.



Amphenol

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WQ-7292	\$44.95	\$40.45	\$35.90

VIDEO LEAD SELECTION GUIDE

Use	Quality	Connector	to	Connector	Length	Cat.	Page	Use	Quality	Connector	to	Connector	Length	Cat.	Page		
Video	Best	Coaxial	Plug	Coaxial	Plug	1.5m	WQ-7200	364	Video	Best	HDMI (amp) Plug	HDMI (amp) Plug	30.0m	WQ-7436	354		
Video	Best	Coaxial	Plug	Coaxial	Socket	1.5m	WQ-7202	364	Video	Best	HDMI Swivel Plug	HDMI Swivel Plug	1.5m	WQ-7401	354		
Video	Best	S-Video	Plug	S-Video	Plug	3.0m	WQ-7216	364	Video	Best	Display Port Plug	HDMI Socket	3.0m	WQ-7412	354		
Video	Best	S-Video	Plug	S-Video	Plug	5.0m	WQ-7217	364	Video	Best	Display Port Plug	HDMI Socket	0.15m	WQ-7422	353		
Video	Best	S-Video	Plug	S-Video	Plug	10.0m	WQ-7220	364	Video	Good	HDMI Plug	HDMI Micro D Plug	2m	WQ-7911	353		
Video	Best	RCA	Plug	RCA	Plug	0.5m	WQ-7221	364	Video	Best	HDMI Plug	DVI-D Plug	1.5m	WQ-7407	353		
Video	Best	RCA	Plug	RCA	Plug	1.5m	WQ-7222	364	Video	Best	HDMI Plug	DVI-D Plug	3m	WQ-7406	353		
Video	Best	RCA	Plug	RCA	Plug	3.0m	WQ-7223	364	Video	Best	SMA Plug	SMA Plug	1.0m	WC-7800	229		
Video	Best	RCA	Plug	RCA	Plug	5.0m	WQ-7224	364	Video	Best	SMA Plug	SMA Plug	3.0m	WC-7802	229		
Video	Best	RCA	Plug	RCA	Plug	10.0m	WQ-7225	364	Video	Best	SMA Plug	SMA Plug	5.0m	WC-7804	229		
Video	Best	RCA x 3	Plug	RCA x 3	Plug	0.5m	WQ-7239	364	Video	Best	F Plug	Plug	F Plug	Plug	1.5m	WV-7390	363
Video	Best	RCA x 3	Plug	RCA x 3	Plug	1.5m	WQ-7238	364	Video	Best	F Plug	Plug	F Plug	Plug	3.0m	WV-7392	363
Video	Best	RCA x 3	Plug	RCA x 3	Plug	3.0m	WQ-7240	364	Video	Best	F Plug	Plug	F Plug	Plug	5.0m	WV-7394	363
Video	Best	RCA x 3	Plug	RCA x 3	Plug	5.0m	WQ-7250	364	Video	Best	F Plug	Plug	F Plug	Plug	10.0m	WV-7396	363
Video	Best	D15HD	Plug	D15HD	Plug	0.5m	WC-7585	328	Video	Good	BNC	Plug	BNC	Plug	1.5m	WV-7300	363
Video	Best	D15HD	Plug	D15HD	Plug	2.0m	WC-7586	328	Video	Good	RCA	Plug	RCA	Plug	1.5m	WV-7304	363
Video	Best	D15HD	Plug	D15HD	Plug	5.0m	WC-7588	328	Video	Good	RCA	Plug	RCA	Plug	3.0m	WV-7306	363
Video	Best	D15HD	Plug	D15HD	Plug	10.0m	WQ-7258	328	Video	Good	BNC	Plug	RCA	Plug	1.5m	WV-7308	363
Video	Best	D15HD	Plug	D15HD	Plug	15.0m	WQ-7257	328	Video	Good	S-Video	Plug	S-Video	Plug	1.5m	WV-7330	363
Video	Best	D15HD	Plug	RCA x 3	Plug	1.5m	WQ-7259	364	Video	Good	S-Video	Plug	S-Video	Plug	3.0m	WV-7332	363
Video	Bargain	HDMI	Plug	HDMI	Plug	1.5m	WV-7914	354	Video	Good	S-Video	Plug	S-Video	Plug	5.0m	WV-7334	363
Video	Good	HDMI	Plug	HDMI	Plug	1.5m	WV-7915	354	Video	Good	S-Video	Plug	S-Video	Plug	10.0m	WV-7336	363
Video	Good	HDMI	Plug	HDMI	Plug	3.0m	WV-7916	354	Video	Good	S-Video	Plug	S-Video	Plug	1.5m	WV-7384	363
Video	Good	HDMI	Plug	HDMI	Plug	5.0m	WV-7917	354	Video	Good	Coaxial	Plug	F Plug	Plug	1.5m	WV-7365	363
Video	Best	HDMI	Plug	HDMI	Plug	0.5m	WQ-7906	354	Video	Good	Coaxial	Plug	F Plug	Plug	5.0m	WV-7385	363
Video	Best	HDMI	Plug	HDMI	Plug	1.5m	WQ-7900	354	Video	Good	F Plug	Plug	F Plug	Plug	1.5m	WV-7366	363
Video	Best	HDMI	Plug	HDMI	Plug	3.0m	WQ-7902	354	Video	Good	F Plug	Plug	F Plug	Plug	1.5m	WV-7386	363
Video	Best	HDMI	Plug	HDMI	Plug	5.0m	WQ-7904	354	Video	Best	F Plug	Plug	F Plug	Plug	10m	WV-7450	363
Video	Best	HDMI	Plug	HDMI	Plug	10.0m	WQ-7905	354	Video	Best	F Plug	Plug	F Plug	Plug	20m	WV-7452	363
Video	Best	HDMI (amp) Plug		HDMI (amp) Plug		10.0m	WQ-7430	354	Video	Best	F Plug	Plug	F Plug	Plug	10m	WV-7454	363
Video	Best	HDMI (amp) Plug		HDMI (amp) Plug		15.0m	WQ-7432	354	Video	Best	F Plug	Plug	F Plug	Plug	20m	WV-7456	363
Video	Best	HDMI (amp) Plug		HDMI (amp) Plug		20.0m	WQ-7434	354									

VIDEO LEADS

3 X RCA PLUGS TO 3 X RCA PLUGS

Low capacitance AV connecting cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7316	\$8.95	\$7.95	\$6.95
3.0m WV-7318	\$12.50	\$10.95	\$9.95
5.0m WV-7320	\$14.95	\$13.35	\$11.70
10.0m WV-7321	\$29.95	\$26.95	\$23.95

3.5MM 4 CONTACT PLUG TO 3 X RCA PLUGS



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7345	\$11.95	\$10.70	\$9.50

S-VIDEO 4 PIN MINI DIN PLUG TO S-VIDEO 4 PIN MINI DIN PLUG



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7330	\$9.95	\$8.75	\$7.75
3.0m WV-7332	\$12.95	\$11.35	\$10.35
5.0m WV-7334	\$14.95	\$13.35	\$11.70
10.0m WV-7336	\$24.95	\$22.35	\$19.70

SCART PLUG TO 6 X RCA PLUGS

6 core SCART AV connecting cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7342	\$11.95	\$10.70	\$9.50

3 RCA PIGGYBACK PLUGS TO 3 X RCA PLUGS

With these leads, you can connect 2 outputs from one set of RCA sockets. A lot cheaper than buying double adaptors.



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7324	\$13.95	\$12.35	\$10.95
3.0m WV-7325	\$15.95	\$14.35	\$12.70
5.0m WV-7326	\$19.95	\$17.95	\$15.95

BNC PLUG TO BNC PLUG

RG-59U coaxial cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7300	\$9.95	\$8.75	\$7.75

RCA PLUG TO RCA PLUG

RG-59U coaxial cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7304	\$6.95	\$6.25	\$5.50
3.0m WV-7306	\$7.95	\$6.95	\$6.25

RCA PLUG TO BNC PLUG

RG-59U coaxial cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7308	\$7.95	\$6.95	\$6.25

F PLUG TO F PLUG

RG-59U coaxial cable
White version - WV-7366



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7386	\$8.95	\$7.95	\$6.95
1.5m WV-7366	\$8.95	\$7.95	\$7.15

F PLUG TO TV COAXIAL PLUG

RG-59U coaxial cable
White version - WV-7365



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7384	\$4.95	\$4.45	\$3.90
1.5m WV-7365	\$4.95	\$4.45	\$4.00
5.0m WV-7385	\$9.95	\$8.75	\$7.75

FLEXIBLE COAX LEADS

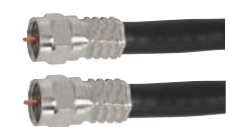
A new range of super flexible coax leads with multi-stranded core and a flexible outer casing that is less likely to tangle and prevents kinking. Its flexibility makes it easier to run through entertainment cabinets and along skirting boards, etc. Available in RG59 or RG6 quad shielded coax cable with nickel plated, moulded F59 plugs. Blue in colour.



Length Cat.	Qty 1+	Qty 4+	Qty 10+
RG-59			
10m WV-7450	\$19.95	\$17.95	\$15.70
20m WV-7452	\$29.95	\$26.95	\$23.70
RG6 Quad Shielded			
10m WV-7454	\$29.95	\$26.95	\$23.70
20m WV-7456	\$39.95	\$35.90	\$31.90

HIGH QUALITY F PLUG TO F PLUG

RG-6 Quad screened, hex crimp coaxial cable



Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m WV-7390	\$7.95	\$7.10	\$6.25
3.0m WV-7392	\$10.95	\$9.75	\$8.75
5.0m WV-7394	\$14.95	\$13.35	\$11.70
10.0m WV-7396	\$24.95	\$22.35	\$19.70

SIGHT & SOUND AV LEADS - PREMIUM QUALITY

HIGH QUALITY AV LEADS

A premium range of audio video cables at the right price. These are high performance non-migration interconnection cables utilising 99.96% pure OFC.

- 24 carat hard gold plated contacts
- 100% shielded metal bodied plugs with positive finger grip & moulded cable strain relief.
- Video cable covered in soft & flexible matt or matte blue jacket
- Recommended for digital or analogue signals
- For home theatre systems, Hi-Fi systems, video/camcorder/TV/VCR/editing suites, DVD, satellite and any application which deserves the absolute best in AV performance
- Clean and clear image reproduction
- Attractively packaged
- Will stand up to the quality of units that sell up to 4-5 times more elsewhere (apart from the expensive packaging!)

3.5MM STEREO PLUG TO 2 X RCA PLUGS

Stereo parallel cable



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7206	\$17.95	\$15.95	\$14.35
3.0m	WQ-7208	\$18.95	\$16.95	\$14.95

RCA PLUG TO RCA PLUG

Video coaxial cable. RG594 75Ω.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7221	\$10.95	\$9.75	\$8.75
1.5m	WQ-7222	\$11.95	\$10.70	\$9.50
3.0m	WQ-7223	\$14.95	\$13.35	\$11.70
5.0m	WQ-7224	\$17.95	\$15.95	\$14.35
10.0m	WQ-7225	\$24.95	\$22.35	\$19.70

2 X RCA PLUGS TO 2 X RCA PLUGS

Stereo parallel cable



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7227	\$16.95	\$14.95	\$13.35
1.5m	WQ-7226	\$18.95	\$16.95	\$14.95
3.0m	WQ-7228	\$24.95	\$22.35	\$19.70
5.0m	WQ-7230	\$29.95	\$26.95	\$23.95
10.0m	WQ-7232	\$49.95	\$44.90	\$39.90

S-VIDEO 4 PIN MINI DIN PLUG TO PLUG

S-Video cable



Length	Cat.	Qty 1+
3.0m	WQ-7216	\$19.95
5.0m	WQ-7217	\$24.95

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10.0m	WQ-7220	\$34.95	\$31.45	\$27.90

75 OHM TV COAXIAL PLUG TO 75 OHM TV COAXIAL PLUG

RG59U coaxial cable.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7200	\$14.95	\$13.35	\$11.70

75 OHM TV COAXIAL PLUG TO 75 OHM TV COAXIAL SOCKET

RG59U coaxial cable.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7202	\$14.95	\$13.35	\$11.70

3 X RCA PLUGS TO 3 X RCA PLUGS

AV parallel cable. Coloured cable ID.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7234	\$34.95	\$31.45	\$27.90
3.0m	WQ-7236	\$44.95	\$40.45	\$35.90
5.0m	WQ-7237	\$49.95	\$44.90	\$39.90
10.0m	WQ-7235	\$59.95	\$53.95	\$47.90

WHAT'S SO GOOD ABOUT CONCORD LEADS?

CONCORD

Our range of Concord leads are premium quality cables with 24 karat gold plated metal connectors. They are made with pure oxygen free copper conductors and sealed moulded with PVC/ABS insulation for maximum durability. Excellent high grade cables for all your interconnect applications. Independently tested to outperform more expensive cables available in the market.

RGB COMPONENT VIDEO 3 X RCA PLUGS TO 3 X RCA PLUGS

AV parallel cable. Colour coded plugs.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7239	\$29.95	\$26.95	\$23.95
1.5m	WQ-7238	\$34.95	\$31.45	\$27.90
3.0m	WQ-7240	\$44.95	\$40.45	\$35.90
5.0m	WQ-7250	\$49.95	\$44.90	\$39.90

VGA D15HD PLUG TO 3 X RGB PLUGS

- D15HD male to 3 x RCA plug
- Superior electrical screening



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7259	\$19.95	\$17.95	\$15.70

ROADIES CABLE TESTER

Simply plug the cable under test and turn the rotary switch. The LED array gives you an instant go/no-go status of each conductor path in the cable. With bullet-proof all-metal construction, it's ideally suited to the ruff and tumble world of rock 'n' roll, but is also suitable for any technician working with cables. Faster and much easier than a multimeter. Requires 1 x 9V battery. (use SB-2423)

Tests the following cables:

- Speakon 4, 8P • 1/4" mono & TRS • DIN 3, 5, 7, 8P • XLR 3, 5P
- Phono (RCA) • USB • RJ45 • Dimensions: 190(L) x 98(W) x 35(H)mm

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0405	\$64.95	\$58.45	\$51.95



AV LEADS

Use	Quality	Connector	to	Connector	Length	Cat.	Page
Audio	Best	TOSLINK Plug		TOSLINK Plug	1.0m	WQ-7301	365
Audio	Best	TOSLINK Plug		TOSLINK Plug	3.0m	WQ-7302	365
Audio	Best	TOSLINK Plug		TOSLINK Plug	5.0m	WQ-7303	365
Audio	Good	TOSLINK Plug		TOSLINK Plug	0.5m	WQ-7293	365
Audio	Good	TOSLINK Plug		TOSLINK Plug	1.0m	WQ-7294	365
Audio	Good	TOSLINK Plug		TOSLINK Plug	2.0m	WQ-7295	365
Audio	Good	TOSLINK Plug		TOSLINK Plug	5.0m	WQ-7297	365
Audio	Best	TOSLINK Plug		Optical 3.5 Plug	1.0m	WQ-7298	365
Video	Best	DVI-D Plug		DVI-D Plug	2.0m	WC-7590	328
Video	Best	DVI-D Plug		DVI-D Plug	5.0m	WC-7591	365
Video	Best	DVI-A Plug		D15HD Plug	2.0m	WC-7594	328
Video	Good	Coaxial Plug		Coaxial Plug	1.5m	WV-7350	374
Video	Good	Coaxial Plug		Coaxial Plug	1.5m White	WV-7363	374
Video	Good	Coaxial Plug		Coaxial Plug	3.0m	WV-7351	374
Video	Good	Coaxial Plug		Coaxial Plug	5.0m	WV-7352	374
Video	Good	Coaxial Plug		Coaxial Plug	10.0m	WV-7354	374
Video	Good	Coaxial Plug		Coaxial Socket	1.5m	WV-7360	374
Video	Good	Coaxial Plug		Coaxial Socket	1.5m White	WV-7364	374
Video	Good	Coaxial Plug		Coaxial Socket	3.0m	WV-7361	374
Video	Good	Coaxial Plug		Coaxial Socket	5.0m	WV-7362	374
Video	Good	Coaxial Plug		Coaxial Socket	1.5m	WV-7367	374

AV LEADS (CONTINUED)

3.5MM 4 POLE PLUG AV LEADS

Also known as a TRRS plug, suitable for a number of applications, i.e. for A/V signal or Smartphone functions.

3.5MM 4 POLE PLUG TO PLUG AV LEAD

WV-7347



3.5MM 4 POLE PLUG TO SOCKET LEAD

WV-7349



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	WV-7349	\$9.95	\$8.75	\$7.75
2m	WV-7347	\$9.95	\$8.75	\$7.75

3.5MM 4 POLE PLUG TO 2 X 3.5MM SOCKET LEAD

Allows you to connect a separate microphone and stereo headphones or earphones to a Smartphone instead of using a combined earphone with built-in mic.

- Length: 300mm



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
300mm	WA-7020	\$6.95	\$6.25	\$5.50

3.5MM 4 POLE SOCKET TO 2 X 3.5MM PLUG LEAD

Allows you to connect headphones or earphones with in-built microphone to a laptop or desktop with audio and microphone inputs.

- Length: 250mm



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WA-7022	\$6.95	\$6.25	\$5.50

SMA LEADS

SMA COAXIAL LEADS - FACTORY PRECRIMPED

- SMA plug to plug
- Gold plated connectors
- RG316 high quality coax cable
- Bandwidth up to 2.9GHz



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WC-7800	\$19.95	\$17.95	\$15.95
3.0m	WC-7802	\$29.95	\$26.95	\$23.70
5.0m	WC-7804	\$44.95	\$40.45	\$35.95

DVI CABLES

DVI-D TO DVI-D VIDEO CABLES

- DVI to DVI video cables
- Male to Male
- 24 pin



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7590	\$29.95	\$26.95	\$23.95
5.0m	WC-7591	\$44.95	\$40.45	\$35.90

DVI-A TO VGA VIDEO CABLE

- DVI to 15pin HD VGA



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7594	\$24.95	\$22.35	\$19.70

DVI & HDMI CABLE/ADAPTORS

DVI ADAPTOR

- Female to female
- Compatible with DVI-I single dual link, DVI-single/dual link & DVI-A male
- All pins wired straight through

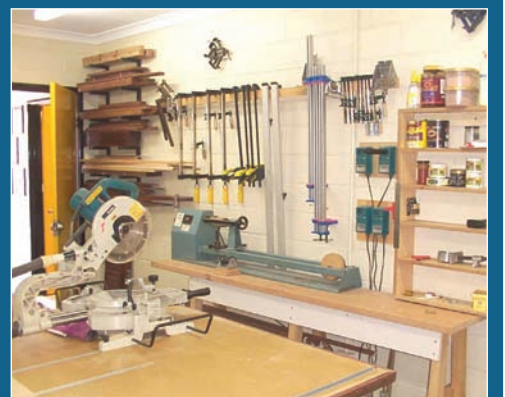


Cat.	Qty 1+	Qty 4+	Qty 10+
PA-0896	\$14.95	\$13.35	\$11.70

Workbench sent to us by: Lionel Jaycar Store: O'Connor

This is my woodwork shop where I create all sorts of wooden masterpieces.

For more details, visit:
www.jaycar.com.au/workbench



OPTICAL ADAPTORS

TOSLINK ADAPTOR FEMALE / FEMALE

- Enables shorter optical leads to be extended



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3575	\$6.95	\$6.25	\$5.50

TOSLINK FEMALE TO OPTICAL 3.5MM MALE



Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3574	\$5.95	\$5.25	\$4.75

FIBRE OPTIC LEADS

FIBRE OPTIC TOSLINK AUDIO LEAD

When a high quality, interference free audio signal is required use TOSLINK fibre optic cables. Suitable for home theatre audio setups.

- Supports Dolby Digital 5.1 surround sound and DTS



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7293	\$8.50	\$7.50	\$6.75
1.0m	WQ-7294	\$9.95	\$8.75	\$7.75
2.0m	WQ-7295	\$14.95	\$13.35	\$11.70
5.0m	WQ-7297	\$24.95	\$22.35	\$19.70

CONCORD FIBRE OPTIC AUDIO LEADS

A range of fibre optic TOSLINK cables with superb build quality. The tips are gold plated to prevent corrosion so your connections remain solid. Suitable for achieving excellent audio reproduction in home cinemas that support Dolby Digital 5.1 (AC-3) surround sound, DTS, and more.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WQ-7301	\$15.95	\$14.35	\$12.70
3.0m	WQ-7302	\$24.95	\$22.35	\$19.70
5.0m	WQ-7303	\$39.95	\$35.90	\$31.90

TOSLINK TO 3.5MM FIBRE OPTIC AUDIO LEAD

A mini-TOSLINK to 3.5mm cable for connecting a device with a 3.5mm optical output to an AV receiver with Toslink.

- Gold connectors
- Length: 1.0m



Length	Cat.	Qty 1+
1.0m	WQ-7298	\$7.95

SIGHT & SOUND WALLPLATES & KEYSTONES

AV WALLPLATES, KEYSTONES & INSERTS

Ideal for HDMI extenders.

Recessed Cable Entry Wallplate

Create a neat cable entry/exit point for terminated or non-terminated audio and video leads. The wallplate design allows cables to be passed through walls with minimal fuss and the inner curved recessed design ensures maximum safety.

- Mounting screws included.
- Screw thread size: 2.5mm

SMALL

- Dimensions 124(W) x 82(H) x 36(D)mm

Cat. PS-0295



LARGE

- Dimensions 124(W) x 82(H) x 55(D)mm

Cat. PS-0297

	Cat.	Qty 1+	Qty 5+	Qty 10+
Small	PS-0295	\$7.95	\$6.95	\$6.25
Large	PS-0297	\$6.95	\$6.25	\$5.50

Brushed Rear Cable Entry Wallplate

Allows you to run pre-terminated cables through a wall. Brushed entry and concave extrusion will help protect against dust and keep the cables secured.

- Great for use with HDMI, Cat5, component/composite, S-video, and a variety of other cables.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-0296	\$9.95	\$8.75	\$7.75

Brushed Cable Entry Wallplate

Single gang brush plate for cable entry through walls etc. Suitable for pre terminated cables going to LCD or plasma screens, and particularly suited to HDMI cables as they can't be split, spliced or field-terminated. An ideal solution if you only have a short cable run.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-0291	\$9.95	\$8.75	\$7.75

MULTIMEDIA WALLPLATE INSERTS

Inserts for Keystone Wallplates

A range of inserts to cater for computer and Audio video applications. They fit standard 110 keystone wall plates and allow you to configure your installation any way you like.



Insert Type	Cat.	Qty 1+	Qty 5+	Qty 10+
F81 - F81 - White	PS-0761	\$2.95	\$2.60	\$2.30
BNC - BNC - White	PS-0763	\$2.95	\$2.60	\$2.30
RCA - RCA Socket - White	PS-0764	\$2.95	\$2.60	\$2.30
RCA - RCA - Red	PS-0765	\$2.95	\$2.60	\$2.30
RCA - RCA - Yellow	PS-0767	\$2.95	\$2.60	\$2.30
S-Video - S-Video	PS-0769	\$2.95	-	-
3.5mm Socket	PS-0777	\$2.95	\$2.60	\$2.30
4mm Banana - Banana - Red	PS-0774	\$2.95	\$2.60	\$2.30
4mm Banana - Banana - Black	PS-0775	\$2.95	\$2.60	\$2.30
TOSLINK - TOSLINK	PS-0749	\$3.95	\$3.45	\$3.15
RJ11 Socket - 6P4C	YN-8026	\$4.95	\$4.45	\$3.90
RJ12 Socket	YN-8027	\$4.95	\$4.45	\$3.90
RJ45 Socket - Cat5e	YN-8028	\$4.95	\$4.45	\$3.90
RJ45 Socket - Cat6	YN-8029	\$4.95	\$4.45	\$3.90
HDMI - HDMI - White	PS-0771	\$9.95	\$8.75	\$7.75
HDMI - HDMI Right Angle	PS-0796	\$9.95	\$8.75	\$7.75
HDMI - HDMI with Flylead	PS-0797	\$12.95	\$11.35	\$10.35
USB - USB - Right Angle	PS-0795	\$5.50	\$4.90	\$4.30
USB - USB - White	PS-0773	\$4.95	\$4.45	\$3.90
USB B - USB A Socket	PS-0753	\$4.95	\$4.45	\$3.90
USB 3.0 - USB 3.0 - White	PS-0799	\$12.95	\$11.35	\$10.35

MULTIMEDIA WALLPLATES

Multimedia Wallplates

Give your media station or projector installation a neat finish with these handy multimedia wallplates. Available with a variety of video, audio, and data terminals to suit analogue and digital systems, all connections are double-sided for easy installation. Simply run a pre-made cable within the wall cavity or cabinet and plug it into the back of the wallplate.

- Standard GPO mount wallplate with concealed screws
- Plate dimensions 116(H) x 75(W) x 12(D)mm
- Approximate cavity depth required 60mm
- 150mm flylead behind plate on USB & HDMI connections



VGA, PC AUDIO, & COMPOSITE AUDIO & VIDEO

- VGA video
- Stereo 3.5mm audio
- RCA audio and video

PT-0471

VGA WITH PC AUDIO

- VGA video
- Stereo 3.5mm audio

PT-0477

HDMI 1.4 WALLPLATE WITH FLYLEAD

- VGA video
- Stereo 3.5mm audio

PS-0281

PT-0477

PT-0471

PS-0281



	Cat.	Qty 1+	Qty 5+	Qty 10+
VGA, PC Audio & Comp. Audio/Video	PT-0471	\$24.95	\$22.35	\$19.70
VGA with PC Audio	PT-0477	\$19.95	\$17.70	\$15.70
HDMI 1.4	PS-0281	\$14.95	\$13.35	\$11.70

Keystone Wallplates

Flush type wall plates to accept our standard keystone 110 jacks. Fits standard Australian electrical switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.

- Supplied unloaded without keystone jacks
- Dimensions 70(W) x 114(H) x 6(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Single White	YN-8050	\$2.50	\$2.21	\$1.95
Double White	YN-8052	\$2.50	\$2.21	\$1.95
Triple White	YN-8054	\$2.75	\$2.45	\$2.15
Quad White	YN-8056	\$2.90	\$2.60	\$2.30
6 Way White	YN-8058	\$2.90	\$2.60	\$2.30

DVI Wallplate Socket With 4 Keystone Ports

Features a DVI socket to socket joined to the wallplate with standard D-sub screws as well as 4 keystone ports. Expand your wallplate with a combination of other required sockets.

- Dimensions: 115(L) x 70(W)mm

	Cat.	Qty 1+
	YN-8057	\$9.95



VGA Wallplate Socket with 4 Keystone Ports

VGA Wall Plate Socket with 4 Keystone Ports

	Cat.	Qty 1+
	YN-8059	\$7.95

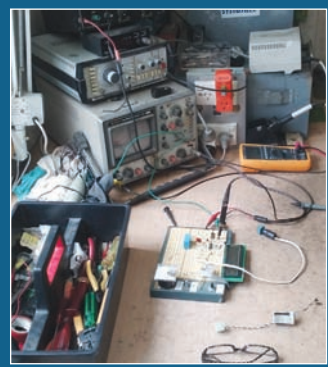


Workbench sent to us by:

**Graeme
Jaycar Store:
Mt Wellington, NZ**

From ideas to breadboard.

For more details, visit:
www.jaycar.com.au/workbench



WALLPLATES & ACCESSORIES

Metal Mounting Brackets for Large Wallplates

Suitable for plasterboard walls.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3033	\$2.95	\$2.60	\$2.30

Large Blank Wallplate

This is a standard power point size white blank wallplate. Size 72 x 115mm. Ideal for many uses, including mounting TV antenna sockets, audio sockets, speaker terminals, low voltage outlets etc, etc.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3035	\$4.95	\$4.45	\$3.90

Flushmount 75 Ohm TV Wall Socket with F59 Connection

- Standard power point size.
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 71(W) x 115(H)mm



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3065	\$4.95	\$4.45	\$3.90

PAL 2 Socket Wallplate - TV & FM

Standard power point size. Two PAL sockets, one for TV and one for FM. Simply run one cable in from antenna.



- F59 rear connection
- Mounting screws included
- Dimensions: 115(H) x 71(W)mm



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3066	\$6.95	\$6.25	\$5.50

F61 Flushmount Wall Socket

Standard power point size.

- Accepts F59 plug both sides of this fitting.
- 71(W) x 115(H)mm.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3040	\$4.95	\$4.45	\$3.90

Foxtel® Approved Wall Plates

For splitting your foxtel signal to two outlets. These wallplates are Foxtel® approved. We also have a model featuring an RJ12 socket to wire in your home phone.



2 X F61 SOCKET WALL PLATE

LT-3041



2 X F61 & RJ12 SOCKET WALL PLATE

LT-3058

Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3041	\$6.95	\$6.25	\$5.50
LT-3058	\$7.95	\$6.95	\$6.25

Wallplate - Mini

Architrave type standard white wall plate with a cutout for the 75Ω snap-in insert shown below.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3030	\$2.95	\$2.60	\$2.30

75 Ohm Insert

Clips into the mini wall plate shown above.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3031	\$3.50	\$3.15	\$2.75

75 Ohm TV Floor Socket with F59 Connection

Designed to mount on the skirting board or floor

- 75 ohm impedance (standard)
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 50(L) x 30(W) x 25(H)mm



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3063	\$3.95	\$3.45	\$3.15

F61 Coax Floor Entry

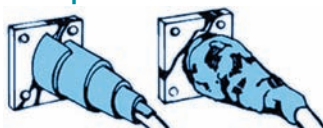
White in colour.

- Size 58 x 46(base) x 27(H)mm.
- Accepts F59 plug both sides of this fitting.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3042	\$3.50	\$3.15	\$2.75

Coax Seal Tape



This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.

- 12mm wide x 1.5m long.

Cat.	Qty 1+	Qty 4+	Qty 10+
NM-2828	\$12.95	\$11.35	\$10.35

WEATHERPROOF OUTLET BOX FOR CARAVANS

External Weatherproof TV Outlet Box

This product enables you to fit a TV or video outlet to your caravan, motor home, home or office that is water & dustproof but provides clean and reliable electrical connection. It can be used to connect an external satellite antenna to an internal TV or an internal TV signal to an external TV via its hinged cover. It is a twin-cable unit so all connections can be completed in one box. The box measures 120(L) x 68(W) x 30(H)mm. Specially moulded TV fly leads are available: a line PAL socket and a F-type socket. These come complete with 5m of very high quality coax cable. We strongly recommend that you use these cable assemblies as they are designed to fit in the box. The box comes complete with stainless steel mounting and fitting screws.

⬆	Cat.	Qty 1+	Qty 3+	Qty 6+	
	TV Outlet Box	LT-3027	\$39.95	\$35.90	\$31.90
	PAL (Female) with 5m Cable	WV-7356	\$14.95	\$13.45	\$11.70
	F-Type (Female) with 5m Cable	WV-7358	\$14.95	\$13.45	\$11.70

SPLITTERS

Indoor Splitter - 2 Way

Allows you to connect two TV, video, games, FM receivers etc to one RF plug, so you can run multiple devices on one outlet.



- Takes standard PAL RF connectors.
- 2 x female sockets to male plug

↑	Cat.	Qty 1 +	Qty 2 +	Qty 5 +
2 Way	LT-3020	\$5.95	\$5.25	\$4.75

F Connector Die Cast Metal Case TV Splitters

These splitters are sealed in a metal case with a mounting bracket. They are suitable from 5 - 900MHz, VHF, UHF TV and FM radio.



- Requires F type plugs - see plugs and sockets section for these
- Supplied with mounting screws



They have power pass for masthead amps on all ports. Low VSWR (Voltage Standing Wave Ratio).

⬆	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3044	\$7.95	\$6.95	\$6.25
4 Way	LT-3045	\$9.95	\$8.75	\$7.75

Single Power Pass

These have power pass on the input to one output. This is to allow voltage up through the splitter to power a masthead amplifier or satellite dish LNA. These allow the voltage on one port only, so if anything goes wrong, all ports are not affected by low frequency shorts.



TECH TALK!

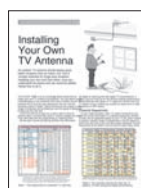
Low VSWR for Digital Performance

DIGITAL READY

⬆	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3046	\$12.95	\$11.35	\$10.35
4 Way	LT-3047	\$17.95	\$15.95	\$14.35

Installing Your Own TV Antenna Booklet

Antennas play an important part in achieving the best picture for your TV set and are especially important for fringe area reception. This guide explains antenna basics and how to install them. Once you understand the basics you will be able to improve your reception and avoid common pitfalls. The guide includes information on current analogue frequencies and the new digital channels.



- 8 pages - A4.



Cat.	Qty 1+
BI-8210	\$2.00

SIGHT & SOUND INDOOR & OUTDOOR TV ANTENNAS

AM / FM ANTENNAS

Indoor AM Antenna

Stereo tuners aren't made with internal antennas. Most people listen to FM with their tuner, but for the rest who want AM, we have the answer - a loop antenna that can be easily left on top of your stereo cabinet or stored out of sight. It has built-in stand and fly leads to fit the antenna spring terminals on most tuners.

Specifications	LT-3001
Frequency range	520 - 1660kHz
Dimensions	120(W) x 120(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3001	\$19.95	\$17.95	\$15.95

FM Indoor Antenna

Simple ribbon type antenna (dipole) gives good performance in strong signal areas.

- 300Ω termination.



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3002	\$4.95	\$4.45	\$3.90

For Smartwave Passive
Reel Antenna see page 397

TECH TALK!

INDOOR TV ANTENNAS?

Jaycar carries a great range of "indoor" type TV antennas in both passive & active gain models, which are good quality. Many people select such products hoping that they will offer satisfactory TV reception without the cost and/or hassle of a full outdoor TV antenna system. Often people who are renting premises cannot install a full TV antenna system anyway because they are not allowed to drill holes etc. The reality, however, is that indoor TV antennas rarely give totally satisfactory results.

The antenna element dimensions never correspond to broadcast frequencies for a start. Because you are inside, you may have no idea where the TV tower is anyway. Even if you knew where the tower was the antenna rarely has directional qualities. This makes the towers' location fairly meaningless. Trying to make an indoor antenna according to the laws of physics misses the point.

Despite this, indoor TV antennas can work amazingly well! Just don't get too scientific about it. They work best when you can throw a rock and hit the TV tower. As all the channels you will want to watch will not be in rock-throwing distance, some stations will work better than others. Wiggling the antenna around is really your only available technique. Indoor TV antennas are made for flat dwellers in large Western or Asian cities with high building density. In other words, all the TV towers will not be far away. If you live in a "spread out" city and cannot see a TV tower i.e. like most Australian and New Zealand cities, it is highly likely that an indoor antenna will not solve your reception problems. There may simply be very little signal for you to pick up. Just imagine walking into a darkened room at night. Even with your eyes wide open you see virtually nothing until your eyes adjust to the conditions. At best you can see, say the white frame of a door. You certainly would not be able to read! You would not blame your eyes because you could not see but people frequently blame an indoor TV antenna in a similar situation for "not working" (visible light and TV signals are both part of the electromagnetic spectrum).

So when you buy an indoor antenna - from us or anyone else - don't expect a lot. If you bring the product back and say "it doesn't work", we know that you are really blaming the messenger. You may think that our words are a bit harsh but we respect both your time and your money too much to tell you what you need to hear, not what you want to hear.

The copy above relates mainly to Analogue TV systems. They are basically gone now but the need for an indoor or temporary TV antenna still exists. Let us Jaycar people take a position on this:

We do not like indoor TV antennas and if we could get away with it, we would not sell them.

The behavior of an indoor TV antenna can be ok, it can really be bizarre. If you are renting a flat and have a hopeless TV (Digital) reception you really need to get the landlord to fit a proper TV signal feed. Good Luck.

The TV Signal is still R.F. however, although digitally encoded. This means that the indoor antenna is still capable of picking up the radio frequency signal and converting it into a signal voltage. In all likelihood the antenna will pick up several versions of the R.F. signal at once. This is because R.F. being R.F. will have made its way to your antenna via several paths. It will be up to the front end of your TV receiver to distinguish the strongest signal and ignore the others. Modern TV front ends are pretty good at this.

So if you are in a rented flat and want to watch TV try one of our indoor antennas. Ours are as good as or better than anyone else's. If you are not happy with the performance of the antenna, keep the packaging, your receipt and bring it back to us if you feel you have to.

Just don't tell us that ... "it does not work..." You will get your money back all right, but you might get a blank stare.....

* Tech Talk revised Feb 2016

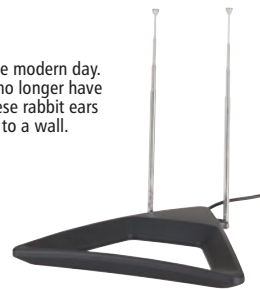
INDOOR ANTENNAS

UHF/VHF Passive Indoor TV Antenna - Desk or Wall Mount

The traditional "rabbit" ears antenna for the modern day. With flat screen TV's, rabbit ear antennas no longer have the ideal spot sitting on top of the set. These rabbit ears can sit flat on a surface or be mounted on to a wall.

- Suits digital TV signals
- Mounting hardware included

Specifications	LT-3116
Frequency range	VHF: 174-230MHz, UHF: 470-862MHz
Cable length	1.6m
Dimensions	195(W) x 15(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3116	\$11.95	\$10.75	\$9.55

Slim Digital TV Indoor Antenna with Amplifier

This digital TV antenna is fitted with an LTE/4G filter which protects your TV from mobile broadband interference. It also features adjustable gain as well as telescopic dipoles and an adjustable loop aerial for optimal performance.

Specifications	LT-3206
Max Output	90dBuV
Max Noise	1.5/1.8dB (VHF/UHF)
Frequency	VHF: 174-230MHz, UHF: 470-694MHz
Dimensions	230(L) x 195(W)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3206	\$39.95	\$35.90	\$31.90

Indoor Flat Panel UHF/VHF Digital Antenna with Amp

An indoor antenna that will sit unobtrusively near your TV. An extremely capable unit featuring signal clear technology with extremely low noise circuitry. It is able to pick up both UHF/VHF signals as well as DAB+ radio. It is also coupled with a separate amplifier with independent UHF and VHF gain adjustments to give you greater control over your signal. The amplifier can be powered with the supplied mains adaptor or from a USB cable (mini plug lead not supplied). Though the unit does not require the amplifier, it may be necessary for areas with weak indoor reception.



Specifications	LT-3156
VHF Frequency	45-230MHz
UHF Frequency	470-862MHz
Output	Max 78dB
Channels	0-12 & 20-75
Impedance	75 ohms
Panel Size	480(L) x 109(W) x 54(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3156	\$44.95	\$40.45	\$35.90

Digital Indoor/Outdoor Antenna

As global television moves from analogue to digital, this indoor/outdoor digital antenna will be a great investment to your household. With its contemporary style design it may provide you with the high quality clear reception needed. The panel can be mounted to the wall; great for minimising space.

- AC adaptor included.



Specifications	LT-3137
Frequency range	VHF - 174-230MHz, UHF - 470-862MHz
Antenna gain	10dB
Total gain	40dB
Impedance	75 ohm
Output	F female connector
Dimensions	502(L) x 235(W) x 76(H)mm

End View



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3137	\$99.95	\$89.95	\$79.95

DIGITAL ANTENNAS - OUTDOOR

Outdoor Omni-Directional UHF/VHF Amplified Digital Antenna

With inbuilt low noise and high gain booster, this compact and weather resistant outdoor digital antenna is ideally suited for caravans, boats, and other fixed or mobile applications where space is constrained or harsh environmental conditions require a little extra durability. Excellent wide frequency reception for local free-to-air analogue and digital TV, DAB+ digital radio as well as FM radio transmissions. It can be either base mounted or mast mounted and includes mounting bracket, 12V mains power adaptor and a 12V in-car charger.

- SMD technology
- Anti-rust and UV protected



Specifications	LT-3141
FM	87.5 - 108MHz
VHF	174-230MHz
UHF	470-862MHz
Output level	Max 108dB
Impedance	75 ohms
Receiver dish	350(Dia) x 60(H)mm
Mounting base	120(Dia) x 70(H)mm



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3141	\$89.95	\$80.95	\$71.95

Outdoor UHF/VHF/Marine TV Antenna

Digital ready. It rotates. Ideal for "grey nomads". This unit is ideal for the traveller. Because you could be in any part of Aust/NZ this antenna works on all frequencies. (Some better than others, we admit). It covers VHF low, down to 45MHz (channel 2) to 860MHz (channel 69).

It includes a signal amplifier and a rotator motor built into the antenna housing and a remote control for that. It also comes with approx. 8 metres of TV lead with a weatherproof plug on one end.

- 12VDC mains adaptor supplied
- Includes booster amp which will drive 2 x TV's
- Compatible with LT-3204 telescopic mast.
- Supplied with other hardware.
- Output 80 dBuV.
- Requires 1 x 2V A23



Antenna measures: 750(W) (deployed) x 300(L) x 100(D) (mm) (Folds down for storage)

Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3143	\$64.95	\$58.45	\$51.95

TV ANTENNA COMPARISON GUIDE

If you have been lucky enough to see the American HBO series "Mad Men" you may have noticed something. In many living room scenes the "actors children" are watching T.V. True to the historical accuracy of the series the producers of the show showed TV Reception the way it was in the '50's and '60's. i.e. The picture was snowy, had severe ghosting and the frame rolled a few times every minute. TV Reception has been getting slowly better ever since

It made a massive improvement with Digital T.V. The problems of analogue T.V. - ghosting, poor signal to noise ("snow") and frame lock have virtually been eliminated. But you still need a T.V. Antenna because you still need to pick up the R.F. signal. The selection process is far, far easier these days, however.

There are only about 1/2 a dozen options for the right antenna for you. Call in to any Jaycar store and we will tell you which one to buy. If you install it reasonably well, your Digital T.V. will do the rest.

And you will be able to watch "Mad Men" and thousands of other programs without the issues that the viewers in the early days of T.V. Had to put up with.

Remember, a fairly inexpensive T.V. Antenna is one of the best investments in home entertainment you will ever make.

Use our selection guide to help choose...

	Type	Elements	Channels	Frequency Range (MHz)	Gain	Front-back ratio	Overall Length	Page
LT-3182	UHF	91	21-52	470-750	14 - 16dBi	15 - 26dB	2210mm	369
LT-3181	UHF	43	21-52	470-750	11 - 13dBi	15 - 25dB	1285mm	369
LT-3138	UHF	36	28-51	520-694	12dB	20dB	840mm	370
LT-3195	Combination	27	6-12 28-46	174-230 526-659	VHF 7dB UHF 11dB	VHF 12dB UHF 18dB	1320mm	370
LT-3172	Combination	7	6-12 28-46	174-230 526-659	VHF 8dB UHF 12dB	VHF 12dB UHF 16dB	720mm	370
LT-3175	Combination	32	6-12 28-51	174-230 526-694	VHF 8dB UHF 11dB	>20dB	1130mm	370
LT-3161	VHF	6	6-12	174-230	8dB	19.4dB	686mm	370
LT-3165	VHF	10	6-12	174-230	9.5dB	21.5dB	1548mm	370

UHF TV Antennas with 4G LTE Filter

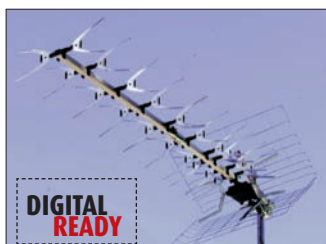
TV antennas suitable for medium or deep fringe signal reception areas. Both feature an LTE filter to prevent interference from 4G/LTE mobile networks, which is housed within a waterproof dipole box with F-type connection. Easy assembly - just fold elements into position

- High quality waterproof F-type balun
- In-built filter for next-gen LTE/4G network signals

43 ELEMENT - CAT. LT-3181

Suitable for medium signal reception areas.

- Elements: 43
- Channels: 21 - 52
- Frequency range: 470 - 750MHz
- Gain: 11 - 13dBi
- Front-back ratio: 15 - 25dB
- Impedance: 75 Ohm
- Overall length: 1285mm



91 ELEMENT - CAT. LT-3182

Huge antenna suitable for deep fringe signal reception areas.

- Elements: 91
- Channels: 21 - 52
- Frequency range: 470 - 750MHz
- Gain: 14 - 16dBi
- Front-back ratio: 15 - 26dB
- Impedance: 75 Ohm
- Overall length: 2210mm



Cat.	Qty 1+	Qty 2+	Qty 5+
43 Element LT-3181	\$44.95	\$40.45	\$35.90
91 Element LT-3182	\$89.95	\$80.95	\$71.95

UHF/VHF ANTENNAS (CONTINUED)

UHF Phased Array TV Antenna

This wideband phased array antenna suits analogue or digital TV and is ideal for country poor reception areas, where you have ghosting problems or are not in direct line of sight of the transmitter. (Gold Coast, Wollongong, Central Coast, Newcastle for example)

- Digital TV ready
- Band 4 and 5, 520 to 820MHz
- Elements: 36
- UHF Channels: 28 to 69 (28-52 with LTE filter on)
- Maximum gain: 12dB
- Front to Back Ratio: 20dB
- Includes F type PCB Balun
- Can be used for horizontal or vertical polarisation
- Dimensions: 840(L) x 540(W)mm

For country digital areas

**DIGITAL
READY**

Matchmaster
TV Reception Systems

For the Best



Note: Not suitable for all areas.

	Cat.	Qty 1+	Qty 2+	Qty 5+
36 Element	LT-3138	\$84.95	\$76.45	\$67.95

Combination VHF/UHF DigiMatch Antenna

These Australian made heavy duty antennas are the ideal metropolitan antennas for Digital TV as they are capable of receiving digital and analogue TV on VHF channels 6-12 and UHF channels 21-69. The UHF section of the antenna employs X-type elements for wider bandwidth and higher gain, whilst the VHF section has elements made from high grade aluminium strong enough to withstand damage from birds. The VHF section of these antennas can be mounted horizontally or vertically for areas such as Canberra and Shepparton, making them suitable for all TV transmitters throughout Australia. Their overall design has improved figures for gain, VSWR and F/B ratio to give a superior carrier to noise ratio - this means more signal, less noise and therefore much lower chance of picture dropouts.

The Digital anti-reflection Matching System (DMS) employs a diplexer to electronically couple the VHF and UHF sections of the antenna together, giving 20dB isolation to achieve a better Bit Error Ratio (BER) and maximum digital performance.

- Ready for today and future UHF allocations and Plus One networks
- F-Type PCB balun & diplexer for quick installation and improved VSWR
- Black ABS UV resistant plastics
- 12.7mm dia. VHF elements
- Stainless steel screws
- Australian designed and manufactured
- Powder coated boom (blue)

**DIGITAL
READY**

Matchmaster
TV Reception Systems

For the Best



NOT AVAILABLE IN NEW ZEALAND

DIGIMATCH VHF/UHF ECONOMY 7 ELEMENT

Receives Band 3, 4, and 5 (Channel 6-12 and 21-69). Perfect for caravans or space-conscious metropolitan areas. Designed to enable positions in all horizontal, vertical or horiz/vert. polarities.

- Suitable for all transmitters across Australia
- High performance / Heavy duty construction
- Stainless steel connection screws
- Black UV resistant plastics / Powder coated boom
- Supplied in stout, compact cardboard packaging

**DIGITAL
READY**

Specifications	LT-3172
Boom length	720mm
Max width	880mm



Includes FREE roll of Coax-seal (Cat. NM-2828)

NOT AVAILABLE IN NEW ZEALAND



DIGIMATCH VHF/UHF X-TYPE COLINEAR 27 ELEMENT

Receives Band 3, 4, and 5 (Channel 6-12 and 21-69)

Specifications	LT-3195
Elements	27
Gain	VHF 7dB, UHF 11dB
Avg. VSWR	1.9:1
Avg. F/B Ratio	VHF 12dB, UHF 18dB
Boom length	1320mm
Max width	900mm

Supplied in stout, compact cardboard packaging

Includes FREE roll of Coax-seal (Cat. NM-2828)



**DIGITAL
READY**

	Cat.	Qty 1+	Qty 2+	Qty 5+
7 Element	LT-3172	\$89.95	\$80.95	\$71.95
27 Element	LT-3195	\$149.00	\$133.95	\$118.95

TECH TALK

WHAT IS AN "LNB"

LNB stands for Low Noise Blocking converter.

It is basically the device that takes the radio signal from a satellite in space and converts it to the electronic signal that your satellite converter can turn into a TV signal.

Log-Periodic 32 Element VHF/UHF TV Antenna

Specifically designed with digital TV in mind, this combination VHF/UHF log periodic antenna picks up all the frequencies where digital TV is transmitted. The VHF band 3 elements fold in for compact packaging, are 7mm thick and made of heavy duty materials to minimise damage from our pesky Australian birdlife. Receiving only VHF band 3 (channels 6-12) and UHF bands 4 & 5 (channels 28-69) means doing away with those dastardly long elements which are only for picking up ABC analogue, the same ones that cockatoos love to sit on and destroy. All the plastics are UV stabilised and the balun has an F-type output for connection to your coax down lead. While not quite as strong as our Australian made Digimatch antennas, this antenna offers similar performance in a cost effective, relatively compact package for receiving all your free to air digital TV channels with just one antenna.

- Packed in a compact box to reduce postage costs, and includes mounting clamp and twist-on F connector with rubber boot.



Specifications	LT-3175
Elements	32
VHF	channels 6 - 12
UHF	channels 28 - 69
Gain	VHF 8dB, UHF 11dB
Avg. F/B ratio	>20dB
Balun	F-type
Boom length	1130mm
Max Width	865mm

**DIGITAL
READY**

Matchmaster
TV Reception Systems

For the Best



NOT AVAILABLE IN NEW ZEALAND

	Cat.	Qty 1+	Qty 2+	Qty 5+
32 Element	LT-3175	\$79.95	\$71.95	\$63.95

VHF ANTENNAS

DigiMatch VHF Band 3 Antennas

Major metro cities in Australia are receiving their Digital TV broadcasts exclusively on VHF band 3 channels 6-12). These fantastic heavy duty VHF Yagi antennas made exclusively for Jaycar by Matchmaster have all the features you expect - high grade 12.7mm diameter aluminium extruded elements, "G-unit" dipole, UV stabilised black plastic isolators, stainless steel hardware, blue powder coated boom, and a high grade F-type balun for superior digital performance. And let's not forget these are 100% Australia made! A sure bet for the best Digital TV reception in your home.

Two models available:

- 6 ELEMENT VHF BAND 3 ANTENNA** CAT. LT-3161
- 10 ELEMENT VHF BAND 3 ANTENNA** CAT. LT-3165

Specifications	LT-3161	LT-3165
Elements	6	10
Gain	8dB	9.5dB
Avg. VSWR	<2.2:1	<2.0:1
Max F/B ratio	19.4dB	21.5dB
Channels	6-12	6-12
Frequency	177.5	226.5MHz
Boom length	686mm	1548mm
Max width	900mm	900mm

For metro digital areas

**DIGITAL
READY**

Matchmaster
TV Reception Systems

For the Best



NOT AVAILABLE IN NEW ZEALAND

	Cat.	Qty 1+	Qty 2+	Qty 5+
6 Element	LT-3161	\$109.00	\$97.95	\$86.95
10 Element	LT-3165	\$169.00	\$151.95	\$134.95

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card
and let them choose!



SIGNAL FINDERS

Digital TV Signal Strength Meter

Take out the stress from installing your digital TV antenna by using this DVB-T signal strength meter. No more multiple trips up to your roof to get that perfect picture. Connect the pocket sized DVB-T signal strength meter and adjust the angle of your digital TV antenna, the easy to read LED indicator lets you know when you've hit the right spot. Adapters included.

- Requires 1 x 9V battery
- Frequency range: 40-862MHz
- Input Level: 50-90dBuV



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LT-3332	\$39.95	\$35.90	\$31.90

Satellite Finder with LED Display

Align your satellite dish quickly and accurately with this handheld satellite finder. Connected between the satellite dish and set top box the meter displays signal strength on the 6 LED display. Once the meter picks up a signal use the adjustable sensitivity to fine tune the angle and lock in on the signal. A small compass is included to help you get the dish pointed in the right direction. Perfect for setting up permanent dishes as well as portable systems on caravans or RVs.

- Dimensions: 90(L) x 48(W) x 31(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LS-3302	\$24.95	\$22.35	\$19.70

SATELLITE ACCESSORIES

DiSeq™ 1.2 Motor with Metal Gear

DiSeq™ (pronounced "Die-See") is the signal protocol used between a satellite receiver and a dish rotor. This DiSeq™ motor connects to the output of an LNB and to the input of a DiSeq™ receiver or interface box. When you select a different channel on your receiver, the motor rotates the dish to the correct satellite position so you get the best picture. The motor also supports receivers with Goto "X" function for manual position adjustment.

Specifications	LS-3330
Protocol	DiSeq™ 1.2 & Goto "X"
Compatible receiver	Receiver with DiSeq™ 1.2 or Interface Box
Compatible antenna size	120cm max.
Satellite position	100 positions
Azimuth Angle	80° East - 80° West (160°)
Elevation Angle	25° - 75°
Speed	2.5°/second at 13V or 3.2°/second at 18V
Input/Output voltage	13/18VDC
Dimensions (mount)	345(L) x 168(H) x 110(D)mm



	Cat.	Qty 1+
↑	LS-3330	\$64.95

Satellite KU-Band Universal Single LNBF

LNBF for satellite installations. Suitable for receiving all single and dual polarised Ku-band satellite signals (e.g. C1, Intelsat and Austar).

Specifications	LS-3320
Input Freq Range	10.7 to 12.75GHz
L.O. Frequency	9.75/10.6GHz
L.O. Frequency Stability	+/-2.5MHz
Output Connector	75 ohm F socket



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LS-3320	\$29.95	\$26.90	\$23.70

DIPLEXER

Digimatch UHF/VHF Diplexer with DC Bypass

If you want to install a VHF and a UHF antenna on the same cable, you'll need a diplexer. The design allows tilting for easy installation and the cable entry is sealed against the weather. Quality Matchmaster product suitable for Australia and New Zealand, supplied with heavy duty clamp.

- F connections for faster installations
- Fully screened for impulse noise reduction
- Weatherproof housing
- Suitable for Australia and New Zealand use
- HDTV compliant



Specifications	LT-3082
UHF	470 - 862MHz
VHF	45 - 230MHz
Dimensions	112(W) x 108(H) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LT-3082	\$29.95	\$26.90	\$23.70

TELEVISION AMPLIFIERS/SPLITTERS

Indoor Digital TV Amplifier UHF/VHF

A portable and compact amplifier capable of boosting signals to passive indoor TV antennas for both digital and analogue signals. It can be powered from the supplied mains adaptor or USB (mini plug available separately) and features independent manual UHF and VHF gain adjustments to give you greater control over your signal. In-built signal clear technology with low noise circuitry will help to give you the best possible picture and video. Standard PAL input and output connections.

Specifications	LT-3281
VHF Frequency	45 - 230MHz
UHF Frequency	470 - 862MHz
Gain	20dB
Noise	<3dB
Impedance	75 ohms
Dimensions	100(L) x 60(W) x 27(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LT-3281	\$29.95	\$26.90	\$23.70

UHF/VHF/FM Indoor Amplifier TV Splitters

Split and amplify your UHF, VHF or FM signals with these handy amplifier splitters. Features high gain and low noise to ensure your signal is of a high quality. Both units can be wall mounted for greater convenience.

- Mains adaptor included

Specifications	LT-3282	LT-3284
Frequency range	47 - 900MHz	47-900MHz
Output(max)	2 x 87dBuV	4 x 80dBuV
Gain Average	20dB	15dB/10dB (VHF/UHF)
Noise	<2dB	<5dB
Power	12VDC/50mA	6VDC/50mA
Dimensions	110(L) x 70(W) x 35(H)mm	158(L) x 80(W) x 45(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LT-3282	\$24.95	\$22.35	\$19.70
	LT-3284	\$34.95	\$31.45	\$27.90

Indoor TV Amplifier/Splitters

SINGLE OUTPUT

Such a simple and neat solution to boosting your TV antenna signals. The unit simply plugs into a mains outlet, and boosts your TV antenna signals through the F-type input and output sockets. There is also a mains output socket on the front so that you don't lose any power points behind your TV unit. Up to 20dB of amplification is provided, with a variable gain control.

Specifications	LT-3285
Frequency range	46-860MHz
Gain	20dB
Gain control	15dB VHF, 10dB UHF
Noise figure	only <3.5dB
Dimensions	96(L) x 60(W) x 40(D)mm



Features F sockets

2 WAY

Boost your TV signal indoors. The antenna lead is plugged into the amplifier, and there are two outputs for two TVs, both which have a 12dB boost. One outlet can be used for FM stereo if desired. - Runs on 240VAC mains, and includes a LED power indicator.

Kingray

4 WAY

A digital television splitter/amplifier for use in multiple receiver applications. The amplifier has F type input/output connectors and features variable gain on the VHF band. The unit operates from 240VAC and is mounted in a white ABS housing with integral mounting lugs. Size 60(W) x 40(H) x 85(L)mm. Adaptors are included to suit Belling Lee installations.

Specifications	LT-3287
Frequency range	40 - 860MHz
Variable gain	0 - 6dB

Kingray



	Cat.	Qty 1+	Qty 2+	Qty 5+
↑	LT-3285	\$44.95	\$40.45	\$35.90
	LT-3288	\$44.95	\$40.45	\$35.90
	LT-3287	\$89.95	\$80.95	\$71.95

SIGHT & SOUND

TV ANTENNA AMPLIFIERS

MASTHEAD AMPLIFIERS FOR DIGITAL TV

UHF/VHF Digital TV Masthead Amplifier

A cost effective 26dB masthead amplifier suitable for digital, analogue, or HDTV reception. The unit is able to accept signals from separate UHF and VHF antennas, or UHF/VHF combination antennas, and output the amplified signal down a single cable. Features separate VHF and UHF gain controls, F-type connections, weatherproof plastic housing and optional FM trap. Supplied with power injector, PAL Male to F-Male lead, 2 x PAL-Female to F-Male adaptors and power supply.

Specifications	LT-3275
UHF gain	26dB
VHF gain	18dB
Current consumption	80mA
Power supply	15VDC
Noise figure	UHF 1.5dB / VHF 2dB
Return loss	In 10, Out 8
HDTV Compliant	
Dimensions	125(W) x 102(H) x 45(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3275	\$59.95	\$53.95	\$47.90

VHF/UHF/HDTV Masthead Amplifier - Digimatch

Designed in Australia specifically for harsh Australian conditions, this masthead amp is ideal for digital, analogue or HDTV reception in Australia or New Zealand. Suitable for use with either separate VHF and UHF antennas, or a single combination antenna. It also features separate adjustable gain on VHF and UHF for optimum signal. Supplied with full installation manual, mounting hardware and power supply. Waterproof housing and fully shielded.

- Heavy duty clamping system
- Suitable for bands 1-5
- Regulated power supply
- Adjustable inter-stage gain on UHF & VHF
- UHF gain: 10 - 30dB / VHF gain: 5 - 25dB
- Fully shielded
- AC power adaptor with F-type connection included
- Dimensions: 112(W) x 108(H) x 35(D)mm
- HDTV Compliant
- Switchable input
- Posistor protected
- F-type connectors

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3270	\$69.95	\$62.95	\$55.95

Featuring the same quality Australian design and performance that has become synonymous with the Kingray brand, this new "KM Series" of masthead amplifiers brings you clear Digital (and analogue) TV reception for a more affordable price than previous models. A completely revised PCB design with advanced surface mount technology has allowed these new models to pack all the same performance and features into a much smaller package. Each unit features a shielded case, weather resistant UV stabilised outdoor plastic housing, adjustable gain controls, combined or separate antenna inputs (allowing either a combination VHF/UHF or separate VHF and UHF antenna inputs), and F-type connections. Two models available, with instructions and power supply included.

Kingray SAM224FS 4 Output Masthead Amplifier

Australian design and high quality SMD construction leads to exception performance from this 4-output masthead amplifier from Kingray. Accepts a single "mixed" antenna input, and provides four amplified outputs for you to run to each wall point in your home. All connections are F-type to ensure best signal quality, and the circuit board is housed in a metal case to shield against noise. Includes power supply.

- Wide input range to suit all analogue and digital TV signals
- 4 individual amplified outputs
- Suitable for combined VHF/UHF antenna input
- Replacement power supply LT-3256

Specifications	LT-3253
Frequency range	44 - 860 MHz
Max gain	VHF 12dB, UHF 16dB
Gain control	11 - 14dB tilt
Noise figure	< 3.5dB
Max output	100dBuV DIN45004B / -60dB IMR
Supply voltage	14VDC 70mA
Dimensions	105(W) x 90(H) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3253	\$89.95	\$80.95	\$71.95

Replacement Power Supplies for Masthead Amplifiers

- F-socket power injector.
- 14VDC@150mA - Cat LT-3256/LT-3251
- 17.5VAC@100mA - Cat LT-3258
- Connection: F-59

Kingray

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3258	\$29.95	\$26.90	\$23.70
	LT-3256	\$29.95	\$26.90	\$23.70

Kingray VHF/UHF Masthead Amp with LTE/4G Filters

As you may be aware by now, a large chunk of the Australian TV broadcast spectrum is being reallocated for the next generation 4G/LTE mobile phone service. This is currently due to happen at the end of 2013, and early reports are suggesting that this reallocation of the spectrum may interfere with existing TV reception apparatus. To guard against this, Kingray have produced this Australian made masthead amp that provides a good VHF & UHF TV band gain, and user selectable filters for VHF bands 1&2, FM radio, fixed pagers, and the new 4G/LTE band.

- Supplied with AC power injector and F-type to PAL adaptors.
- Combination and separate VHF & UHF Antenna inputs

Specifications	LT-3251
Frequency range	VHF 44-230MHz, UHF 520-860MHz
Gain	VHF 22-26dB, UHF 35dB
Gain control	VHF 16-12dB, UHF 15dB
Noise figure	VHF 3.5dB, UHF 2.1dB
Selectable filters	FM, LTE, VHF band 1 & 2, fixed pagers
Suitable power supplies	LT-3256, LT-3258 or LT-3259

A fantastic product proudly made in Australia.

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3251	\$119.00	\$106.95	\$94.95

12V Masthead Amp Power Injector

An easy solution to powering a masthead amp on a caravan, RV, camper trailer etc. It plugs into a cigarette lighter/12V power socket and feeds power for a masthead amplifier. Simply connect between the antenna down lead and your set top box. F-type connections fitted.

- Suitable with LT-3251 VHF/UHF masthead amplifier
- Ideal for Caravans and RV's

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3259	\$39.95	\$35.90	\$31.90

FILTERS

4G/LTE Filter for Digital TV Reception

Since the re-stacking of Digital TV transmissions has already begun, pretty soon 4G/LTE mobile phone signals will start being transmitted on the old UHF TV channels 52-69. Of course, this means that UHF antennas will be picking up those signals, and interfering with Digital TV reception. When this filter is plugged into the back of a digital TV receiver it will block unwanted signals from 4G/LTE mobile transmitters giving you clear uninterrupted TV reception.

- In-line coax connection
- Waterproof design
- Frequency pass range: 5-694MHz
- Insertion loss < 1dB
- LTE band rejection: 720-1000MHz, 40dB

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3062	\$14.95	\$13.45	\$11.95

ANTENNA HARDWARE

BARGEBOARD ANTENNA MOUNT - HOCKEY STICK

Simply bolts onto bargeboard (below gutter) or other support. 1800mm long, galvanised steel construction.

- Mounting plate: 215 x 65mm

LT-3212

305mm comes with U-bolt

U-CLAMP/V-BLOCK

For securely clamping mast sections, mounts, etc., at right angles.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	LT-3200	\$27.95	\$24.95	\$22.35
	LT-3212	\$24.95	\$22.45	\$19.95
	LT-3235	\$4.50	\$3.95	\$3.60

Adjustable Antenna Mount Bracket

Ideal for antenna installations with less traditional bargeboards. The base allows for an adjustable angle and contains a mast 1.5mm thick.

- Supplied with mounting hardware.
- Dimensions: 520(L)mm



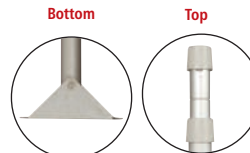
	Cat.	Qty 1+
	LT-3205	\$19.95

TELESCOPIC MASTS

Telescopic Antenna Mast

With adjustable height and durable aluminium construction, this versatile telescopic antenna mast is suitable for just about any domestic application as well as marine and mobile use. It has a maximum height of 4.5 metres and includes a base mount and three guy wires for ensured stability.

- Suitable for multiple antenna use
- Easy installation and height adjustment
- 36mm diameter
- Maximum height 4.5 metres



Ideal for Grey Nomads

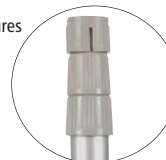
	Cat.	Qty 1+	Qty 4+	Qty 10+
	LT-3202	\$64.95	\$58.50	\$51.95

Caravan/RV (General Purpose) Mast

We have had many requests and finally found one. This unit in natural finish anodised aluminium is a telescopic mast suitable for TV and other antennas. It will extend to 1.5 metres in 3 sections. The top section is 27mm dia. which is compatible with almost all TV antenna mounting hardware. The bottom section is 35mm dia. which would easily be accommodated by U-bolt or other clamping hardware (not supplied).

The top section has a sturdy cap and features a slot which enables you to neatly thread the coax lead down through the mast.

- Length extended: 1.5m



	Cat.	Qty 1+	Qty 4+	Qty 10+
	LT-3204	\$29.95	\$26.95	\$23.95

Workbench sent to us by: Walraven Jaycar Stockist: Autobarn Lismore

This is the main work center in my workshop. It has all the little tools around and ready to hand. Bigger tools are in the rest of the workshop which does have a 3 axis desktop milling machine, but alas - it lacks a 3D printer.



For more details, visit:
www.jaycar.com.au/workbench



RELATED PRODUCTS

75 Ohm RG59 Gas Injected Foam Coax

A 30m roll is generally a common length for a domestic TV antenna installation. Save over buying by the metre, and a small roll is easy to work with.



	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
Black	WB-2005	\$17.95	\$15.95	\$14.35
White	WB-2001	\$19.95	\$17.95	\$15.90



Belden Brand Quad Shield RG6 75 Ohm Coax

30m roll of the WB-2009 Belden Coax shown above

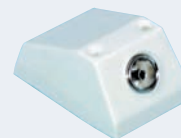


	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
	WB-2014	\$44.95	\$40.45	\$35.90

75 Ohm TV Floor Socket with F59 Connection

Designed to mount on the skirting board or floor

- 75 ohm impedance (standard)
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 50(L) x 30(W) x 25(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3063	\$3.95	\$3.45	\$3.15

Rotary Coax Stripper

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable.
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1820	\$19.95	\$17.95	\$15.95

SIGHT & SOUND

ANTENNA LEADS & ACCESSORIES

TV FLYLEADS

75 OHM COAX CABLE MALE TO FEMALE

75 ohm coax cable, male to female. No extension!



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7367	\$3.50	\$3.15	\$2.75

TV COAXIAL PLUG TO TV COAXIAL PLUG

RG-59U coaxial cable. Double shielded cable.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7350	\$5.95	\$5.25	\$4.75
1.5m - White	WV-7363	\$5.95	\$5.50	\$4.75
3.0m	WV-7351	\$7.95	\$6.95	\$6.25
5.0m	WV-7352	\$9.95	\$8.75	\$7.75
10.0m	WV-7354	\$16.95	\$14.95	\$13.35

TV COAXIAL PLUG TO SOCKET

RG-59U coaxial cable. Double shielded cable.



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7360	\$4.95	\$4.45	\$3.90
1.5m - White	WV-7364	\$4.95	\$4.45	\$4.00
3.0m	WV-7361	\$7.50	\$6.75	\$5.95
5.0m	WV-7362	\$8.90	\$7.95	\$6.95

F PLUG TO TV COAXIAL PLUG

RG-59U coaxial cable White version - WV-7366



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7384	\$4.95	\$4.45	\$3.90
1.5m - White	WV-7366	\$8.95	\$7.95	\$7.15
5.0m	WV-7385	\$9.95	\$8.75	\$7.75

F PLUG TO F PLUG

RG-59U coaxial cable White version - WV-7365



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7386	\$8.95	\$7.95	\$6.95
1.5m - White	WV-7365	\$4.95	\$4.45	\$4.00

FLEXIBLE COAX LEADS

A new range of super flexible coax leads with multi-stranded core and a flexible outer casing that is less likely to tangle and prevents kinking. Its flexibility makes it easier to run through entertainment cabinets and along skirting boards, etc. Available in RG59 or RG6 quad shielded coax cable with nickel plated, moulded F59 plugs. Blue in colour.



Length	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	RG-59	WV-7450	\$19.95	\$17.95	\$15.70
20m	RG-59	WV-7452	\$29.95	\$26.95	\$23.70
10m	RG6 Quad Shielded	WV-7454	\$29.95	\$26.95	\$23.70
20m	RG6 Quad Shielded	WV-7456	\$39.95	\$35.90	\$31.90

Workbench sent to us by: Victor Jaycar Store: - East Kew

My well loved and slightly cluttered workplace - the source of many hours of joy and experimentation.

Thank you Jaycar for always being close at hand.

For more details, visit:
www.jaycar.com.au/workbench



BALUNS

Outdoor Baluns

300 OHM TO 75 OHM - 'F' TYPE

Mounts on antenna. Converts natural 300Ω impedance of an antenna to 75Ω for coax. 'F' type female output. Eliminates saddle clamp termination. Requires F plug.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3028	\$4.95	\$4.45	\$3.90

Indoor Baluns

75 OHM TO 300 OHM

75Ω socket for input and 300Ω ribbon cable output. Allows connection of any 75Ω output (video, TV games etc) to a TV with an older style 300Ω input.



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3022	\$4.50	\$3.95	\$3.60

ATTENUATORS

Fixed Attenuators

Fixed attenuators are a handy way to resolve ghosting and reflections caused by too high a signal strength in RF or Video signals. BNC or F-type fixed attenuators will address these problems.



- Made from solid brass body with nickel plating
- Bandwidth: 5MHz to 1GHz
- All are inline (male to female) and DC Blocking



Atten.	Cat.	Qty 1+
BNC 3dB	LT-3053	\$1.95
BNC 12dB	LT-3057	\$1.95

Variable Attenuator

May reduce ghosting in some cases. In certain situations you can actually receive too much TV signal. This attenuator (signal reducer) plugs in line and has a variable control. Supplied with two F sockets, maximum attenuation is 20dB.

Features F sockets



Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3050	\$9.95	\$8.75	\$7.75

MODULATOR

Audio/Video RF Modulator with Display - Stereo

Converts the composite video and stereo audio signal from your DVD player, Pay TV, Camera etc into a standard UHF or VHF TV channel so you can watch the program via the antenna input of the TV. It is easy to connect and operate, and is supplied with a 9VDC mains adaptor and 1m Female to Male RF cable.

- RCA AV input
- PAL antenna input
- PAL antenna output (TV)
- DC power supply input
- ON/OFF switch
- Channel adjustment (Up/Down key)
- LED channel number display



Specifications	LM-3880
Output	VHF: 2-4CH, S1-S11 UHF: 21-69CH (471.25-801.25MHz)
Power cable length	1.8m
Dimensions	140(L) x 82(W) x 30(H)mm



Cat.	Qty 1+	Qty 4+	Qty 10+
LM-3880	\$49.95	\$44.90	\$39.90

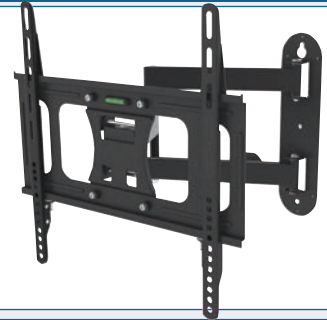
PLASMA / LCD / LED TV WALL BRACKETS

We have celebrated the emancipation of new bracket designs by introducing a total new product range. Wall brackets for TVs and monitors have come down in price for 2 main reasons.

- The supply is no longer dominated by expensive European manufacturers
- The brackets no longer need to be made to hold 80kg+ CRT-type TV sets/monitors

Our range of universal TV and monitor brackets are easily strong enough to safely hold up any LCD, LED or even plasma TV safely. Indeed TVs are in fact getting lighter and lighter. These products have come a long way. Not only are they more versatile, most come with built-in bubble-type spirit levels to aid in successful installation.

- Models to suit Plasma/LCD/LED TVs from 13" - 80"
- Mounting hardware & instructions included
- VESA standard compliant
- Solid steel construction



Use our selection guide to help choose...

	Screen Size	Type	Max VESA Dimension (mm)	Weight Capacity kgs	Horizontal Adj.	Vertical Adj.	Depth from Surface (mm)	Spirit Level	Page
CW-2851	13" - 27"	Swivel	100 x 100	20	180°	-15°/+15°	80-442	-	375
CW-2853	13" - 27"	Swivel	100x x 100	20	60°	-15°/+15°	80	✓	375
CW-2866	23" - 37"	Tilt	300 x 300	37	-	-15°/+15°	63	✓	376
CW-2864	23" - 55"	Fixed	400 x 500	20	-	-	25	✓	375
CW-2868	23" - 55"	Swivel	400 x 400	30	180°	-10°/+5°	43-502	✓	376
CW-2869	32" - 70"	Swivel	600 x 400	35	180°	-10°/+5°	43-502	✓	376
CW-2861	32" - 70"	Swivel	600 x 400	25	180°	-15°	42-532	-	376
CW-2859	37" - 70"	Swivel	700 x 400	82	360°	+5°/-10°	380-620	-	376
CW-2865	42" - 80"	Fixed	800 x 500	30	-	-	25	✓	375
CW-2867	42" - 80"	Tilt	800 x 500	60	-	-10°/+10°	43	✓	376
CW-2857	Most	Projector	-	10	360°	30°	240-310	-	376

LCD Monitor Wall Bracket with Cable Management

This full motion mount is able to tilt, swivel and rotate 360 degrees. It features a cable routing management system and allows for an easy and fast installation with included hardware kit.

- Steel full motion flat panel mount
- Cable management system
- Easy and fast installation

Specifications	CW-2853
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	60°
Rotation	360°
Max loading	20kgs
VESA	75x75, 100x100
Distance to the wall	80mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2853	\$39.95	\$35.90	\$31.90

LCD Monitor Swing Arm Wall Bracket

- Anti-theft full motion flat panel mounts
- Aluminium arms, plastic cover and cable management system
- Easy and fast installation

Specifications	CW-2851
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	180°
Rotation	360°
Max loading	20kgs
Max VESA	75x75, 100x100mm
Distance to the wall	80-442mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2851	\$49.95	\$44.90	\$39.90

Adjustable LCD Wall Bracket 23-55"

Designed for TVs from 23-55" in size that weigh up to 20kg. Adjustable height and quick release locking system to enable easy placement and removal of your TV from the bracket.

- Also features a spirit level built onto it's Aluminium Frame.
- Type: Television
- Maximum Item Weight: 20kg
- Item Width: 46.2cm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2864	\$44.95	\$40.45	\$35.95

Adjustable LCD Wall Bracket 42-80"

Designed for TVs from 42-80" in size that weigh up to 30kg. Adjustable height and quick release locking system to enable easy placement and removal of your TV from the bracket.

- Also features a spirit level built onto it's Aluminium Frame.
- Type: Television
- Maximum Item Weight: 30kg
- Item Width: 86.2cm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2865	\$54.95	\$49.45	\$43.95

SIGHT & SOUND TV MOUNTING BRACKETS

TV MOUNTING BRACKETS (CONTINUED)

LCD Monitor Wall Mount Bracket with 15° Tilt

- Universal tilting flat panel mount
- Cold rolled steel
- Easy and fast installation
- Angle free adjustment
- Lateral shift allows TV to move for perfect placement
- Spirit level



Specifications	CW-2866
Suits	23-37" flat panel TVs
Tilt	-15°/+15°
Max loading	37kgs
Max VESA	300x300
Distance to the wall	63mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2866	\$34.95	\$31.45	\$27.90

LCD Monitor Wall Mount Bracket with 10° Tilt

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



Specifications	CW-2867
Suits	42-80" flat panel TVs
Tilt	-10°/+10°
Max loading	60kgs
Max VESA	800x500
Distance to the wall	43mm

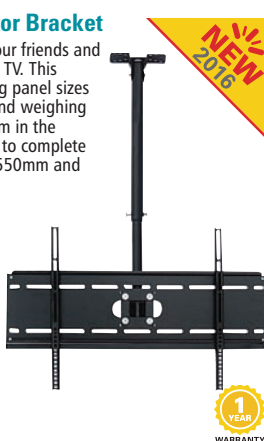


↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2867	\$69.95	\$62.95	\$55.95

Ceiling Mount Adjustable LCD Monitor Bracket

No longer is it an expensive exercise to impress your friends and neighbours with a ceiling mounted LCD or Plasma TV. This mount will be perfect for most installations, suiting panel sizes from 37 inches up to 60 inches (940 - 1780mm) and weighing up to 80kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. It allows vertical extension up to 550mm and forward tilt up to 15 degrees.

- Solid steel construction
- Mounting hardware and instructions included



Specifications	CW-2859
Suits	37"-70"
Tilt	-10°/+5°
Swivel	N/A
Rotation	N/A
Adjustable	380-620mm
Load	80kg
VESA	700 x 400
TV Mounting Plate	815(L) x 215(H) x 12(D)mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2859	\$99.95	\$89.95	\$79.95

TECH TALK

ABOUT VESA MOUNTING STANDARDS

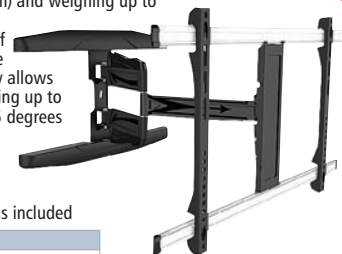
The Video & Electronics Standards Association (VESA) has issued suggested standards for the attachment mounting systems for electronic visual displays also known as the Flat Display Mounting Interface. This is a family of standards defined by VESA for mounting flat panel monitors, TVs and other displays to stands or wall mounts, it is used on most modern flat-panel monitors and TVs. Whilst these standards are quite detailed the basic details of the standards involve the size of the display and the relevant spacing and sizing of the hole to mount the display.

The dimensions vary from 75 x 75mm to 800 x 400mm.

LCD Monitor Wall Mount Bracket with 180° Swivel

No longer is it an expensive exercise to impress your friends & neighbours with the contemporary styling of a wall mounted LCD or Plasma TV. This bracket will be perfect for most installations, suiting panel sizes from 32 inches up to 55 inches (810 - 1400mm) and weighing up to 55kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. The full motion ability allows extension up to 530mm, left/right swing up to 180 degrees and forward tilt up to 15 degrees so it is ideal for mounting in a corner or any other awkward position.

- Solid steel construction
- Mounting hardware and instructions included



Specifications	CW-2861
Suits	32"-55"
Tilt	-15°/+0°
Swivel	180°
Load	25kg
Vesa	600 x 400
Distance to the wall	42-532mm
TV Mounting Plate	740(W) x 425(H) x 25(D)mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2861	\$119.00	\$106.95	\$94.95

LCD Monitor Wall Mount Bracket with 180° Swivel

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



Specifications	CW-2868
Suits	23-55" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max loading	30kgs
Max VESA	400x400
Distance to the wall	43-502mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2868	\$79.95	\$71.95	\$63.95

LCD Monitor Wall Mount Bracket with 180° Swivel

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



Specifications	CW-2869
Suits	32-70" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max loading	35kgs
Max VESA	600x400
Distance to the wall	43-502mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2869	\$99.95	\$89.95	\$79.95

PROJECTOR MOUNTS

Extendable Universal Projector Ceiling Bracket

- Aluminium projector ceiling mount
- Fits for most projectors

Specifications	CW-2857
Tilt	30
Rotation	360°
Height adjust	240-310mm
Max loading	10kgs



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2857	\$59.95	\$53.95	\$47.90

CABLE MANAGEMENT

LCD TV Adjustable Cable Harness Kit

Designed to easily tether any flat panel screen to the wall to prevent tipping that can cause screen damage. Also helps to protect children and pets from harm. Ideal for panels on AV tables within arms reach or in high traffic areas. The kit comes with adjustable tension cables which can be set to the desired length and clamped to a wall.

Contents:

- 2 x Wire Cables
- 12 x Mounting Screws



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pack of 2	CW-2854	\$14.95	\$13.45	\$11.95

Cable Management Sleeve

A flexible neoprene cable management sleeve for concealing all types of cables. Perfect for computer, power and AV leads, at home or in the office. Attach to a wall, behind a desk, under a TV or behind an entertainment unit. Then feed the wires through the sleeve holes and cut the sleeve to the desired length



Contents:

- 2 x Velcro Pieces with Tape
- 1 x Cable Management Sleeve

Note: Cables not included

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2856	\$19.95	\$17.95	\$15.70

SCREEN MAINTENANCE

LCD Screen Cleaning Kit

Keep your computer, TV and other LCD screens clean with this easy to use kit. Remove dust and fingerprints without streaking, scratching or staining. The special solution removes those greasy fingerprints and the elastic anti-static brush and scratch free microfibre cloth are excellent for eliminating dust and grime.

- Elastic anti-static Brush
- Drip-free cleaning solution
- Special microfibre material which is capable of preventing panel scratch and will not harm LCD protective coating.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1418	\$11.95	\$10.70	\$9.50

SPEAKER BRACKETS & STANDS

Adjustable Tilt and Swivel Speaker Wall Brackets

This two-piece swivel bracket is easy to install and is made of strong ABS plastic. Primarily designed for mounting small/medium sized speakers for surround sound setups or could easily be used for mounting security lights/CCD Cameras.

- Tilt: -10°/+10°
- Swivel: -90°/+90°
- Max Load: 5kg



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW-2803	\$14.95	\$13.45	\$11.95

Speaker Wall Brackets

Ideal for mounting home cinema effects speakers.

- Made from high grade glass reinforced nylon for durability
- Suits small to medium speakers up to 5kgs (11 pounds)
- Fully adjustable in all directions
- Supplied with a comprehensive range of fasteners for a variety of speaker types
- Black in colour
- Sold as a pair



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW-2820	\$24.95	\$22.35	\$19.70

Adjustable Wall Speaker Bracket

If your listening room is a bit short on real estate, the answer may be to mount your speakers on the wall with a set of brackets. These brackets can be adjusted horizontally, vertically to tilt up to 20° or to fit speakers up to a depth of 370mm and as small as 80mm. Ideal for conference rooms, AV rooms, studios or small rooms where space is limited. Supplied as a pair.

- Each bracket holds up to 20kg
- Fits speakers from 150mm wide, 80mm deep
- All steel construction
- Black powder coat finish
- All fittings and hardware included



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW-2840	\$39.95	\$35.90	\$31.90

Ceiling / Wall Speaker Bracket - Steel

This sturdy bracket has main axis angle adjustment by a diecast, toothed plate secured by a wing nut. The detents won't slip as can happen with ball types. Minor axis adjustment is by a handwheel with backup by lock screw. As a safety measure a steel wire lanyard easily secures the two halves of the bracket - a good safety feature that is common in professional PA installations. The wall plate has holes for 4 x 6mm (or 1/4") screws. Another hole is provided for speaker wire egress. The speaker mounting plate has 4 x 4mm holes and also two slotted holes.

- Sold individually

Specifications	CW-2841
Max Speaker box weight	10kg
Angle Variation	Main - over 180° Minor - 360°
Wall mount plate	100(W) x 105(H) mm
Speaker mount plate	80(W) x 45(H) mm
Distance from speaker to wall	135mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	CW-2841	\$22.95	\$20.35	\$18.35

Adjustable Speaker Tripod Stand

If you want to adjust the height with a traditional speaker tripod stand, you have to first remove the speaker then adjust the height of tripod and reinstall the speaker. Whereas with this advanced adjustable tripod, you can adjust the height up and down with a rotary hand crank. This heavy duty tripod stand made from sturdy steel and supports up to 80kg of equipment on it. Features anti-slip rubber feet and a locking pin.

Sold individually (i.e. two needed for stereo)

Specifications	CS-2864
Height adjustment	1.4m - 2.2m
Capacity	80kg
Material	Steel
Upper shaft tubing	35(Dia.)mm
Length once folded	1.15m



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Each	CS-2864	\$119.00	\$106.95	\$94.95

PUBLIC ADDRESS SPEAKER SPARES

Top Hat Adaptor 35 - 15mm

Adapts a 35mm top hat mount to 15mm.

- Suits portable PA amps, speaker bins etc.



↑	Cat.	Qty 1+
	CW-2863	\$4.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See page 7 for details



SIGHT & SOUND WALL SPEAKERS & HI-FI COMPONENT SPEAKERS

SPEAKER SYSTEMS



CS-2475

ABS Indoor/Outdoor Speakers

Attractive in design, these 2 way speakers are very versatile. Suitable for indoor and outdoor (covered areas) applications, they can be mounted to a wall or ceiling and can be rotated 180 degrees for perfect sound projection. Each has a polypropylene woofer and dome tweeter. Ideal for conference rooms, auditoriums, lecture halls or out on the patio. Sold as a pair.



CS-2476



CS-2477



CS-2478

4" SPEAKERS Cat. CS-2475

5" SPEAKERS Cat. CS-2476

6.5" SPEAKERS Cat. CS-2477

8" SPEAKERS Cat. CS-2478



Specifications	CS-2475	CS-2476	CS-2477	CS-2478
Power handling	25WRMS	30WRMS	40WRMS	50WRMS
Frequency response	120Hz - 20kHz	100Hz - 20kHz	80Hz - 20kHz	50Hz - 20kHz
Nominal Impedance	8 ohms	8 ohms	8 ohms	8 ohms
Cabinet size	210(H) x 140(W) x 120(D)mm	245(H) x 185(W) x 168(D)mm	296(H) x 217(W) x 190(D)mm	345(H) x 285(W) x 220(D)mm

Size		Cat.	Qty 1+	Qty 2+	Qty 10+
4"	Pair	CS-2475	\$69.95	\$62.95	\$55.95
5"	Pair	CS-2476	\$89.95	\$80.95	\$71.95
6.5"	Pair	CS-2477	\$129.00	\$115.95	\$102.95
8"	Pair	CS-2478	\$189.00	\$169.95	\$150.95

2 Way Active PA Speakers with Bluetooth® Technology

These indoor and outdoor active stereo speakers are great sounding and versatile speakers. Both speakers are two way system, utilising powerful woofers and good quality silk dome tweeters. Simply mount on the wall or ceiling and audio can be transmitted directly to the speakers via Bluetooth technology. Simple and easy to use, it comes with a power supply with a weatherproof locking connectors. Great for use in classroom environments, gymnasium, halls, pubs and clubs. Available in 5.25" (CS-2470) or 6.5" (CS-2472) to suit your application.

Common features:

- Bluetooth® 3.0 source connectivity
- A2DP standard
- Compatible with A2DP standard

Sold as a Pair

Specifications	CS-2470	CS-2472
Woofer Size	5.25"	6.5"
Tweeter	1/2" PEI Dome	1" Silk
Bluetooth® range	up to 10m	up to 10m
Output	30WRMS	50WRMS
Frequency response	80Hz - 20kHz	50Hz - 20kHz
Impedance	4 Ohms	8 Ohms
Dimensions	252(W) x 163(H) x 163(D)mm	302(H) x 196(W) x 194(D)mm



Size		Cat.	Qty 1+	Qty 2+	Qty 10+
5.25"	Pair	CS-2470	\$249.00	\$223.95	\$198.95
6.5"	Pair	CS-2472	\$299.00	\$269.00	\$239.00

SPEAKER SWITCHES

6 Way Speaker Selector Switch

This speaker selector box is perfect for anyone with a multi-room speaker system that they want to run from a master source. This selector box allows you to connect up to 6 pairs of speakers to your amplifier, and select any number of those pairs to play your music simultaneously. The outputs are all impedance matched so you won't ever damage the output stage of your amplifier.



- Solid metal construction
- Compatible with amplifiers up to 150 watts per channel
- Terminals accept up to 14-gauge wire
- Built-in protection circuit
- Dimensions: 285(W) x 180(D) x 55(H)mm



6 Way	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1683	\$129.00	\$115.95	\$102.95

SPEAKER POLARITY TESTER

Speaker Polarity Tester with Tone Generator

Ideal for troubleshooting and testing an audio system and installation. It offers an output range of 0-8 volts at a variable 13Hz to 10kHz tone for setting system levels, checking speaker crossover points, verifying connections and general trouble-shooting. It features a 9V speaker popper for visually testing speaker connection polarity. Connections can be made via included RCA or alligator clips. It also features an auto shutoff for extended battery life.



- Tone generator, speaker polarity and RCA cable tester
- Output Range: 0V-8V
- 9V speaker popper
- RCA or alligator clips
- Power: Requires 9V Battery
- Dimensions: 100(H) x 65(W) x 23(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0414	\$29.95	\$26.95	\$23.70

AMPLIFIERS - STEREO

STEREO AMPLIFIER COMPARISON GUIDE

Use our selection guide to help choose...

	Power output	Speaker Impedance	Frequency Response	Signal to Noise Ratio	Inputs	Page
AA-0472	2 X 18WRMS	4 ohms	50Hz - 18kHz	60 dB	Mic and stereo RCA	379
AA-0487	2 X 15WRMS	4 ohms	60Hz - 20kHz	> 80 dB	3.5mm stereo	379
AA-0486	2 X 25WRMS	4 to 8 ohms	5Hz - 65kHz	72 dB	3.5mm stereo, stereo RCA & Mic	379
AA-0488	2 X 50WRMS	6 ohms	20Hz - 20kHz	103 dB	3.5mm stereo, stereo RCA	379
AA-0470	2 X 100WRMS	4 ohms	20Hz - 20kHz	70 dB	Tape, Tuner, AV1/2, CD, Phono, Mic	380
AA-0505	2 X 65WRMS	4 to 8 ohms	15Hz - 22kHz	90 dB	Stereo RCA	380
AA-0477	2 X 100WRMS	4 to 8 ohms	20Hz - 20kHz	85 dB	Input XLR	380
AA-0479	2 X 100WRMS	4 to 8 ohms	20Hz - 20kHz	> 90 dB	Input XLR	380



2 x 18WRMS Stereo Amplifier

LOW COST MAINS POWERED

This is a simple, fairly bullet-proof 18W/channel transistor amp and it's surprisingly loud! It is ideal as a small office or workshop PA amp in churches, community halls etc. It is protected from accidental speaker wiring shorts and if abused will simply shut down and reset after it has cooled off. It has a front panel microphone input, bass & treble controls as well as a master volume control.

- A suitable microphone for this unit is AM-4190.

Specifications	AA-0472
Power	240VAC 50Hz 150mA
Output	2 x 18WRMS/4Ω
Response	50-18kHz +3dB
Total Harmonic Distortion	0.08% @ 1W
S/N	60dB
Operating Temperature	0-50°C
Microphone Input	60mV @ 1k
Dimensions	170 x 77 x 157mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 18WRMS	AA-0472	\$39.95	\$35.90	\$31.90

2 x 15WRMS Portable Stereo Amplifier

This compact amplifier can run off 8 x AA batteries making it ideal for street performers, or by the AC adaptor included for a hi-fi setup at home or in the office. It outputs a clean 15 watts RMS per channel using a digital signal processor, and features spring-loaded push terminals for quick speaker wire termination and rear mounted 3.5mm stereo audio input. Includes a 1.8m 3.5mm male to 2 x RCA cable and 3.5mm plug to 2 x RCA socket adaptor for making connection to a PC, iPod®, MP3 player or portable CD player. Intelligent short-circuit and over-temperature protection ensure amplifier longevity. A great little amplifier for some serious use!

- Batteries not included

Specifications	AA-0487
Power Output	2 x 15WRMS
Minimum Speaker Impedance	4 ohm
Frequency Response	60Hz - 20kHz
Total Harmonic Distortion	<0.04%
Signal to Noise Ratio	>80dB
Dynamic Range	102 dB
Efficiency	88% (10W, 8 ohm)
Channel Separation	>45dB
Inputs	3.5mm Stereo
Dimensions	150(W) x 130(D) x 30(H)mm



Battery Powered



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 15WRMS	AA-0487	\$64.95	\$58.45	\$51.95

2 x 25WRMS Compact Stereo Amplifier

A compact amplifier that can deliver up to 25WRMS of power per channel. It is ideal for home, office or a small workshop. Connect audio to the stereo RCA or 3.5mm line input, connect your speakers to the push down spring terminals, connect power and you're in business. There is also a 6.5mm microphone input on the front, making it ideal for a small office or workshop PA system.

- Controls include mic volume, music volume, bass and treble
- 18VAC 2.2A power supply included

Specifications	AA-0486
Power output	2 x 25WRMS
Output impedance	4 to 8ohms
Freq response	5Hz to 65kHz, +/- 3dB
S/N Ratio	72dB
Dimensions	216(W) x 65(H) x 150(D)mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 25WRMS	AA-0486	\$129.00	\$115.95	\$102.95

2 x 50WRMS Compact Stereo PA Amplifier

Uses digital sound processing to deliver the quality of a Class AB amplifier with the efficiency of a Class D. Features solid aluminium body, high current rated banana socket speaker terminals, stereo RCA audio input, front panel mounted 3.5mm stereo input and a 6.5mm headphone socket means it also doubles as a headphone amplifier. Rounded off with short circuit, thermal and overload protection. Package includes amplifier, 24VDC power supply, two sets of banana plugs, 3.5 to 6.5mm headphone adaptor, 3.5mm to 2 x RCA cable and coiled 3.5mm audio input cable.

Specifications	AA-0488
Power Output	2 x 50WRMS
Minimum Speaker Impedance	6 ohm
Frequency Response	20Hz - 20kHz
Total Harmonic Distortion	<0.01% @30W, <5.0% @ 50W
Input Impedance	2k ohm +/- 5%
Signal to Noise Ratio	103dB (A weighted)
Dynamic Range	>100dB
Efficiency	85%
Channel Separation	95dB
Inputs	RCA / 3.5mm stereo
Weight	450g
Dimensions	78(W) x 150(D) x 50(H)mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 50WRMS	AA-0488	\$189.00	\$169.95	\$150.95

SIGHT & SOUND

AUDIO AMPLIFIERS & SPEAKERS

AMPLIFIERS - STEREO (CONTINUED)

Fantastically Compact 65W RMS x 2 Class D Amplifier

This is an unbelievable product! Never before will you have seen such a powerful 2-channel (STEREO) amp in such a compact size! The amp itself measures a tiny 170(L) x 95(W) x 28(D)mm!! It has frugal controls: 1 x volume knob and an On/Off switch. On the back are the line-level RCA inputs and insulated speaker terminals, along with a DC plug for power. Supplied with AC Power lead, stereo 3.5mm plug to plug and stereo 3.5mm plug to RCA plugs. You must come in to one of our stores just to marvel at this thing!

Power supply (supplied, but separate): 36VDC @ 4.2A / 240V AC, 2.2A

Specification	AA-0505
Freq resp	15Hz to 22kHz \pm 1dB
S/N	90dB (25kHz band limited)
Switching freq	1.45MHz
Sensitivity	430mVRMS
Power	2 x 65W (both channel driven)
Dimensions	170(L) x 95(W) x 28(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 65WRMS	AA-0505	\$219.00	\$196.95	\$174.95

2 x 100WRMS Stereo Amplifier with Remote Control

A good looking, no-nonsense stereo amplifier that will form the heart of an impressive stereo system. Rated at a generous 100WRMS per channel and has a flat frequency response from 50Hz to 20kHz.

Bass and treble controls are fitted providing +/- 10dB cut or boost. Equipped with microphone input level control, an infrared remote control & screw down speaker terminals.



Specifications	AA-0470
Power Output	2 x 100WRMS (4 Ω)
Frequency response	20Hz to 20kHz
S/N ratio (A - Weighted)	70db
THD	< 0.05%
Output impedance	4, 6 or 8 Ω
Inputs for Tape	Tape Tuner, AV1, AV2, CD, Phono
Input impedance / Sensitivity	47k Ω / Phono - 2.5mV / Tape, Tuner, AV 250mV
Tape Out level	250mV
Dimensions	420(W) x 135(H) x 214(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 100WRMS	AA-0470	\$265.00	\$235.00	\$205.00

200W & 400W Dual Channel Rack Mount Amplifiers

Very versatile rack mount amps that suit a variety of applications. Add a small mixer and use them as a PA amp, or standalone as a foldback amp. They have unbalanced 1/4" jack inputs and balanced XLR inputs. Speaker connections are by Speakon connectors or screw binding posts. Very versatile amps that can be run as dual channel, stereo or bridged. The build quality of these amps is excellent, with very solid aluminium chassis and front panels so they are a very cost-effective solution for a pro audio application.

- Single channel or bridged
- 2U rack mount / 3U subwoofer amp
- Clipping/overload protection indicator LEDs
- Separate channel level controls
- Fan cooled



For Rack Enclosures see page 342

Specifications	AA-0477	AA-0479
Power output	2 x 100WRMS @ 4 ohms 1 x 200WRMS bridged @ 8 ohms	2 x 200WRMS @ 4 ohms 1 x 400WRMS bridged @ 8 ohms
THD	<0.3% @ 1kHz 1W	<0.3% @ 1kHz 1W
S/N ratio	85dB	85dB
Input sensitivity	775mV	775mV
Short circuit protection voltage	3V	3V
Dimensions	480(W) x 360(D) x 90(H)mm	480(W) x 360(D) x 90(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
200WRMS Amp Bridged	AA-0477	\$269.00	\$245.00	\$219.00
400WRMS Amp Bridged	AA-0479	\$389.00	\$349.00	\$309.00

HOME ENTERTAINMENT SPEAKERS

Centre Speaker with Bracket

Update or replace the centre speaker in your surround sound system with this great sounding speaker.

It features 2 x 2.5" full range speakers rated at 15WRMS, housed inside a rectangular shaped speaker box to suit most existing systems.

- Supplied with adjustable swivel mount bracket for wall installations.

Accessories not included

Specifications	CS-2463
Speaker	2.5" x 2
Sensitivity	88dB
Power	15WRMS
Frequency range	60-20kHz
Impedance	8ohm
Dimension	170(H) x 110(W) x 89(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 10+
15WRMS	CS-2463	\$39.95	\$35.90	\$31.90

2.5" Indoor Lifestyle Cube Speakers

These cube speakers will blend with virtually any indoor setting and perfectly suit a home entertainment system or small PA setup. Surprising sound reproduction from the full range 2.5" speakers. Supplied with swivel brackets and mounting hardware suitable for wall or ceiling mount. Sold as a pair

Specifications	CS-2431
Power handling	15WRMS
Impedance	8ohm
Sensitivity	88dB
Frequency response	150Hz - 20kHz
Dimensions	90(H) x 88(W) x 100(D)mm

Save a fortune over expensive Euro types



	Cat.	Qty 1+	Qty 2+	Qty 10+
15WRMS Pair	CS-2431	\$39.95	\$35.90	\$31.90

2.1 Speaker Subwoofer Package

Combine our 8" Subwoofer (CS-2433) and a pair of CS-2431 2.5" Cube Speakers



	Cat.	Qty 1+	Qty 4+	Qty 10+
	CS-2434	\$199.00	\$178.95	\$158.95

8" Active Subwoofer with Satellite Output

Add some much needed bass and subsonic "feel" to your home theatre system or gaming machine with this active subwoofer. Movie audio will be enhanced, in-game gun battles will be more vibrant and immersive. Incorporates 2 x 15WRMS audio output for satellite speaker connection for true 2.1 stereo performance.

- Housed in a sleek black enclosure.

Specifications	CS-2433
Amplifier Power Output	120W
Frequency Response	30Hz-250Hz
Driver	8"
Variable Crossover	50Hz-200Hz
Dimensions	350(L) x 260(W) x 315(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
120W	CS-2433	\$189.00	\$169.95	\$150.95

IN-CEILING & WALL MOUNT SPEAKERS

6.5" 2 Way Ceiling Wi-Fi Speakers

These Wi-Fi 6.5" ceiling speakers connect to your Wi-Fi network and stream music from your Smartphone, Tablet or computer. The master speaker incorporates a 2 x 50WRMS amplifier, which powers both speakers. Each speaker has a high quality Kevlar woofer and titanium tweeter for smooth frequency response with crisp highs. The strength of Kevlar helps the cone retain its shape at very high energy levels and its low mass assures quick, accurate response.

A great solution when you are unable to run speaker wiring through the walls. The solution is also capable for multi-room applications so you can connect multiple speaker pairs on the same network and stream the same audio on all rooms, or individual audio tracks to each speaker pair.

- Built-in Wi-Fi function, can be controlled by Smartphone/Tablet/PC
- Built-in Hi-Fi level amplifier: 2 channel 2 x 50WRMS
- 2 standard home Hi-Fi level in-ceiling speakers
- Kevlar Woofer
- Built-in Wi-Fi
- Wireless network compatibility 802.11b/g/n
- Support online audio streaming media

Specifications	CS-2468
Support audio format	MP3/WMA/AAC/ACC/ACC+/ALAC/APE/WAV
Amplifier	
Type	Class D (digital)
RMS power	2 x 50W/8 Ohms
Power input	24VDC/5A
Speaker	
Frequency response	65Hz-20KHz
Power	60WRMS
Impedance	8 Ohms
Sensitivity (1w/1m)	90dB
Woofer	6.5" Kevlar woven cone
Tweeter	1.2" Titanium dome
Treble attenuation	+3dB/-3dB
Dimensions	230(L) x 230(W) x 100(H)mm



Rear & Side Shots



	Cat.	Qty 1+	Qty 4+	Qty 10+
6.5" 2 Way Pair Wi-Fi	CS-2468	\$379.00	\$339.00	\$299.00

In-Ceiling 2 Way 6.5" Speaker In-Can Housing

A 2 way ceiling mount speaker which gives excellent audio quality due to an integrated housing on the back of the speaker. Being housed in a sealed metal can improves low frequency response as well as protecting the speaker from dust, debris, and insects. The housing also ensures speaker performance is not affected by variations in the ceiling space making it suitable for locations with false or raked ceilings.

Featuring a lightweight 6.5" honeycomb woofer and coaxial silk dome tweeter it can be flush mounted easily using the fold out retaining clamps or suspended in mid air using chain or cable attached to the housing brackets.

A screw terminal cable entry is located on the back of the housing and a white clip on cover neatly conceals the speaker & mounting screws.

Specifications	CS-2462
Woofer	6.5" honeycomb cone
Tweeter	25mm silk dome
Tweeter mount	Fixed
Rated Power	40WRMS
Impedance	8 Ohms
Frequency Range	110Hz - 18kHz
Sensitivity	89dB
Minimum mounting thickness	10mm
Dimensions	A 232, B N/A, C 210, D 190 mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
6.5" 2 Way Each Wired	CS-2462	\$89.95	\$80.95	\$71.95

RELATED PRODUCTS

Speaker Attenuator - 100W

A neat and functional solution for controlling the sound level in your multi-room audio speaker installation. The attenuator has 12 step level and fits in a single gang wallplate mount. It allows connection of up to 8 pairs of speakers to one stereo amplifier while maintaining correct impedance match between amp and speakers.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1665	\$59.95	\$53.95	\$47.90

Speaker Attenuator - 70W

Attenuates the audio signal by 46dB on an 8-Ohm system.

- Graduated in 12 steps
- Stereo
- Accepts 16 to 22 gauge wire / Screw terminal termination
- Includes wall plate
- Cut-out measures 33 x 67mm
- 62mm mounting depth from finished wall required
- Wiring diagram supplied



	Cat.	Qty 1+	Qty 5+	Qty 10+
	AC-1685	\$44.95	\$40.45	\$35.95

Speaker Ceiling Grilles

These grilles will suit our 4" speaker and our 8" 10 Watt speaker. White in colour.



	Cat.	Qty 1+	Qty 5+	Qty 10+
4"	AX-3550	\$4.95	\$4.45	\$3.90
8"	AX-3560	\$6.95	\$6.25	\$5.50

SIGHT & SOUND CEILING & HI-FI SPEAKERS

IN-CEILING & WALL MOUNT SPEAKERS (CONTINUED)

In-Ceiling 2 Way Speakers

These ceiling speakers are a 2 way speaker design giving excellent audio quality compared to traditional PA speakers. Combining a coaxial woofer with dome tweeter they are available in three sizes to cover a variety of domestic and commercial applications.

Two of the models also have adjustable tweeter mounts making them ideal when used in a home theatre setup by allowing you to direct high frequencies towards the centre of a room. The flush mount design and fold out retaining clamps allow them to be easily installed in new or existing ceilings, and the matte white finish blends in with most ceiling colours.

- Sold as a pair
- 8 ohm impedance



Specifications	CS-2451	CS-2453	CS-2455
Woofer	5.25" polymer cone	6.5" polymer cone	8" polymer cone
Tweeter	25mm silk dome	25mm silk dome	25mm silk dome
Tweeter mount	Fixed	Swivel	Swivel
Rated Power	30WRMS	40WRMS	50WRMS
Frequency Range	200Hz - 18kHz	180Hz - 18kHz	120Hz - 18kHz
Sensitivity	87dB	88dB	90dB
Minimum mounting thickness	6mm	8mm	10mm
Dimensions	A 200, B N/A, C 170, D 60 mm	A 230, B N/A, C 198, D 85mm	A 260, B N/A, C 228, D 85mm



↑	Sold as a pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	5.25" 2 Way	CS-2451	\$59.95	\$53.95	\$47.90
	6.5" 2 Way	CS-2453	\$79.95	\$71.95	\$63.95
	8" 2 Way	CS-2455	\$99.95	\$89.95	\$79.95

DOMTWEETERS

One unit is magnetically screened for applications where the device may be near a CRT screen, Home Theatre for example. The Titanium dome unit has quite a high power rating for a dome tweeter.

Both are ferrofluid filled which keeps the voice coils cool and adds to reliability. We are delighted with these products.

25mm Titanium Dome Tweeter

This tweeter features a titanium dome with a phase shield which provides a more controlled high frequency roll-off. It produces very crisp & clear high frequencies.

Specifications	CT-2007
Power handling	50WRMS
Nominal impedance	8 Ohms
Frequency response	2 - 20kHz
Sensitivity	91dB SPL @1W, 1m



RESPONSE

↑	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	104	94	70	27	CT-2007	\$19.95	\$17.70	\$15.70

PIEZO TWEETER

Response RSN1005 Piezo Tweeter

Does not require a crossover it's built in and is perfect for use for general PA applications where long throw is required.

Specifications	CT-1930
Power handling	100WRMS
Nominal impedance	8 Ohms
Frequency response	1 - 20kHz
Sensitivity	93dB @1W, 0.5m



RESPONSE

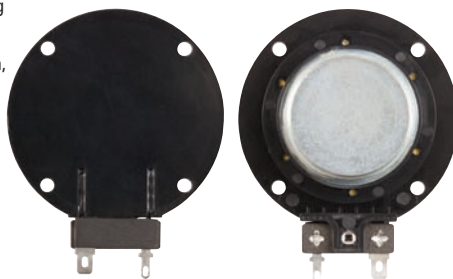
↑	A	B	C	Dmm	Cat.	Qty 1+	Qty 4+	Qty 10+
	85	101	75	70	CT-1930	\$12.95	\$11.65	\$10.35

EXCITER SPEAKER

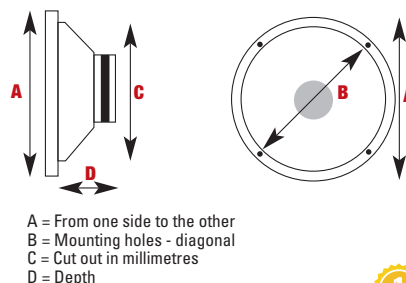
70mm Flat Panel "Exciter" Speaker

Unlike a conventional speaker that creates audio waves by moving air as a result of the cone travelling in and out, this "exciter" speaker produces the audio waves by vibrating the flat panel it is fixed to. Install it on ceiling panels, under a table, on a wall partition, behind a fibreglass panel or other flat surface where a conventional speaker can't normally be used. They are low profile, and could be used in a sealed chamber in a marine application. Array them to increase sound level.

- Sold individually
- Power handling: 15WRMS
- Impedance: 8 ohms
- Voice Coil: 1.25" KSV
- Weight: 125g
- Dimensions: A: 70mm B: 62mm C: N/A D: 20mm



SPEAKER DIMENSIONS



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Each	AS-3039	\$21.95	\$19.75	\$17.55

ALL PURPOSE REPLACEMENT SPEAKERS

27MM (1.1")

Mylar
8Ω
250 mW
Mylar cone.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3002	\$2.95	\$2.60	\$2.30

76MM (3")

8Ω
1 Watt. Round.
No mounting
holes.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3006	\$4.25	\$3.75	\$3.30

125MM (5") ALL PURPOSE REPLACEMENT SPEAKER

- 4 Ohm
- 6 Watt (10W max)
- Resonant Freq.: 100Hz
- Diagonal mounting holes 120mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3007	\$7.95	\$7.10	\$6.25

TECH TALK

DECIBELS

Contrary to much popular usage, the decibel (dB) is not actually a unit of any particular quantity, but rather an expression of the ratio between two quantities, such as, power, voltage, current, acoustic pressure. Many sensors, including our own ears, respond to stimuli in a logarithmic fashion, that is, an increase of 10dB Results in a doubling of loudness. This allows a huge range of intensities. As the dB compares the logarithmic quantities, it agrees with our perceptive comparisons. To calculate the ratio, in dB, of two power levels, P1 and P2, the formula is:

$$dB = 10 \log (P1/P2)$$

If the quantities are voltages, currents or sound pressure levels, X1 and X2, the formula becomes:

$$dB = 20 \log (X1/X2)$$

If the quantities X1 and X2 are both measured in the same impedances, their dB ratio will be numerically equal to the dB ratio of their equivalent powers. If their impedances Z1 and Z2 are unequal, the dB ratio of their power can be found from:

$$dB = 20 \log (X1/X2) + 10 \log (Z2/Z1)$$

Negative dB ratios will result when P1 (or X1) is less than P2 (or X2), while positive values indicate that P1 (or X1) is greater than P2 (or X2).

40MM (1.5")

Mylar
8Ω
250 mW
Mylar cone.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3004	\$3.50	\$3.15	\$2.75

50 X 90MM (2" X 3.5")

- 8Ω, 5 Watt
- Magnetically screened



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3025	\$6.95	\$6.25	\$5.50

57MM (2.25")

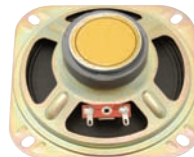
8Ω
As used in many projects
8Ω, 250mW
Round (no mounting holes).



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3000	\$3.95	\$3.55	\$3.15

100MM (4")

4Ω, 2 Watts
Diagonal mounting holes 115mm.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3008	\$4.75	\$4.15	\$3.75

Looking for our Crossover Design Chart?
Check the Primers section on our website.

FULL RANGE REPLACEMENT SPEAKERS

Shielded 1" 1W 8 Ohm Full Range Speaker

Full range speakers suitable for use in surround speakers in home theatre system, computer multimedia speakers and portable speaker designs. It has advanced alloy cone design coated with special damping material. See website for full specifications, frequency curves and technical drawings.

- Magnetically screened
- 4 x screw mounting holes
- Dimensions: 36(L) x 36(W) x 13.1(D)mm

General Data	AS-3030
Nominal Power Handling (Pnom)(W)	1
Max Power Handling (Pmax)(W)	2
Sensitivity (2.83v/1m)(dB)	79
Weight (M)(Kg)	0.03

Electrical Data	
Nominal Impedance (Z)(Ω)	8
DC (Re)(Ω)	6.5

Voice Coil and Magnet Parameters

VC Diameter (mm)	19
VC Length (H)(mm)	3.4
VC Former	CCAW
VC Frame	Kapton
Magnet Former	Neodymium
Force Factor (BL)(N/A)	2.3
Gap Height (He)(mm)	1.5
Linear Excursion (Xmax)(mm)	0.95



T-S Parameters	
Suspension Compliance (Cms)(uM/N)	626
Mechanical Q (Qms)	3.9
Electrical Q (Qes)	0.814
Total Q (Qts)	0.674
Moving Mass (Mms)(g)	0.56
Effective Piston Area (Sd)(m2)	0.0005
Equivalent Air Volume (Vas)(L)	0.04
Resonance Frequency (Fs)(Hz)	270

↑	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
	1"	AS-3030	\$10.95	\$9.75	\$8.75

Shielded 2" 10W 8 Ohm Full Range Speaker

Full range speakers suitable for use in surround speakers in home theatre system, computer multimedia speakers and portable speaker designs. It has advanced alloy cone design coated with special damping material. See website for full specifications, frequency curves and technical drawings.

- Magnetically screened
- 4 x screw mounting holes
- Dimensions: 53(L) x 53(W) x 30.5(D)mm

General Data	AS-3032
Nominal Power Handling (Pnom)(W)	10
Max Power Handling (Pmax)(W)	20
Sensitivity (2.83v/1m)(dB)	78
Weight (M)(Kg)	0.12

Electrical Data	
Nominal Impedance (Z)(Ω)	8
DC (Re)(Ω)	6.5

Voice Coil and Magnet Parameters

VC Diameter (mm)	25
VC Length (H)(mm)	6
VC Former	CCAW
VC Frame	Kapton
Magnet Former	Neodymium
Force Factor (BL)(N/A)	2.2
Gap Height (He)(mm)	3
Linear Excursion (Xmax)(mm)	1.5



T-S Parameters	
Suspension Compliance (Cms)(uM/N)	356
Mechanical Q (Qms)	4.6
Electrical Q (Qes)	2.2
Total Q (Qts)	1.56
Moving Mass (Mms)(g)	1.26
Effective Piston Area (Sd)(m2)	0.0013
Equivalent Air Volume (Vas)(L)	0.2
Resonance Frequency (Fs)(Hz)	260

↑	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
	2"	AS-3032	\$16.95	\$14.95	\$13.35

Shielded 3" 15W 8-Ohm Full Range Speaker

Full range speakers suitable for use in surround speakers in home theatre system, computer multimedia speakers and portable speaker designs. It has advanced alloy cone design coated with special damping material. See website for full specifications, frequency curves and technical drawings.

- Magnetically screened
- 4 x screw mounting holes
- Dimensions: 78(L) x 78(W) x 53(D)mm

General Data	AS-3034
Nominal Power Handling (Pnom)(W)	15
Max Power Handling (Pmax)(W)	30
Sensitivity (2.83v/1m)(dB)	82
Weight (M)(Kg)	0.53

Electrical Data	
Nominal Impedance (Z)(Ω)	8
DC (Re)(Ω)	6.5

Voice Coil and Magnet Parameters

VC Diameter (mm)	20
VC Length (H)(mm)	9
VC Former	Kapton
VC Frame	CCAW
Magnet Former	Ferrite
Force Factor (BL)(N/A)	3.06
Gap Height (He)(mm)	3
Linear Excursion (Xmax)(mm)	3



T-S Parameters	
Suspension Compliance (Cms)(uM/N)	920
Mechanical Q (Qms)	3.75
Electrical Q (Qes)	1.15
Total Q (Qts)	0.88
Moving Mass (Mms)(g)	2.6
Effective Piston Area (Sd)(m2)	0.003
Equivalent Air Volume (Vas)(L)	1.19
Resonance Frequency (Fs)(Hz)	100

↑	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
	3"	AS-3034	\$19.95	\$17.70	\$15.70

RESPONSE PAPER CONE WOOFERS

RESPONSE

These Response woofers are excellent for replacement or for new speaker design construction. Not only are they price competitive and perform very well, but they also look fantastic! The concave treated paper cone matched with rubber surround provides smooth overall

response. Housed in strong steel frame baskets, high power magnet and voice coils, these drivers will produce massive quantities of clean bass output for any musical application.

4" Shielded Paper Cone Woofer/Midrange

Specifications	CW-2190	Re	6 Ohms
Power handling	27WRMS	Qms	1.73
Nominal impedance	8 Ohms	Qes	0.67
Frequency response	70Hz - 7kHz	Qts	0.48
Sensitivity	86dB SPL @1W, 1m	Vas	5 litres
Tuning frequency		Fs	59.9Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	116	109	93	65	CW-2190	\$24.95	\$22.35	\$19.70

5" Shielded Paper Cone Woofer/Midrange

Specifications	CW-2192	Re	6 Ohms
Power handling	50WRMS	Qms	1.40
Nominal impedance	8 Ohms	Qes	0.72
Frequency response	70Hz - 7kHz	Qts	0.47
Sensitivity	88dB SPL @1W, 1m	Vas	7.3 litres
Tuning frequency		Fs	67.6Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	145	136	120	56	CW-2192	\$29.95	\$26.95	\$23.95

6.5" Paper Cone Woofer/Midrange

Specifications	CW-2194	Re	6 Ohms
Power handling	60WRMS	Qms	2.02
Nominal impedance	8 Ohms	Qes	0.57
Frequency response	44Hz - 7kHz	Qts	0.44
Sensitivity	89dB SPL @1W, 1m	Vas	19 litres
Tuning frequency		Fs	49.5Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	178	168	145	77	CW-2194	\$34.95	\$31.45	\$27.90

8" Paper Cone Woofer

Specifications	CW-2196	Re	6 Ohms
Power handling	90WRMS	Qms	1.46
Nominal impedance	8 Ohms	Qes	0.43
Frequency response	38Hz - 4.5kHz	Qts	0.33
Sensitivity	89dB SPL @1W, 1m	Vas	42-45 litres
Tuning frequency		Fs	28.1Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	220	212	182	92	CW-2196	\$39.95	\$35.90	\$31.90

10" Paper Cone Woofer

Specifications	CW-2198	Re	5.41 Ohms
Power handling	225WRMS	Qms	1.01
Nominal impedance	8 Ohms	Qes	0.47
Frequency response	40Hz - 1kHz	Qts	0.32
Sensitivity	90dB SPL @1W, 1m	Vas	21.8 litres
Tuning frequency		Fs	59.8Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	258	245	235	110	CW-2198	\$64.95	\$58.45	\$51.95

12" Paper Cone Woofer

Specifications	CW-2199	Re	5 Ohms
Power handling	225WRMS	Qms	3.46
Nominal impedance	8 Ohms	Qes	0.40
Frequency response	28 - 550Hz	Qts	0.36
Sensitivity	90dB SPL @1W, 1m	Vas	57.6 litres
Tuning frequency		Fs	23.1Hz



RESPONSE



↑	A	B	C	D(mm)	Cat.	Qty 1 +	Qty 4 +	Qty 10 +
	311	294	281	142	CW-2199	\$79.95	\$71.95	\$63.95

SPEAKER/EQUIPMENT CABINET FITTINGS

Strap Handle

Incorporates metal sections on each end which hold the handle, and the rubber strap part returns flat after use.

- Strap is steel reinforced.
- 2 x 8-10g screws required.

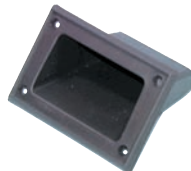
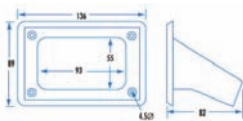


↑	Cat.	Qty 1+	Qty 5+	Qty 10+
255mm x 27mm	HS-8022	\$5.95	\$5.25	\$4.75

Pocket Handle

Suitable for chipboard speaker cabinets or metal enclosures.

- Panel cutout 102 x 48mm
- 4 x 8-10g screws required



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	HS-8012	\$3.95	\$3.45	\$3.15

Metal Cabinet Handle

Quality plated steel cabinet handle. Recessed handle with black rubber grip and spring return.

- Cutout size 128 x 74mm.
- 10 x 8-10g screws required.



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Black	HS-8016	\$9.95	\$8.75	\$7.75

Quality Equipment Feet

You have probably seen new up market Hi-Fi equipment with large round feet - they give the piece of equipment a high class look. Well, now you can do it to your own gear. They are made of black rubber, with a silver metal edge on the bottom. They mount with a screw and nut (not supplied). Size - dia 43mm, height 13mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	HP-0834	\$2.95	\$2.60	\$2.30

Plastic Locking Corner Piece

Heavy duty plastic moulded corner fitting featuring male/female inserts. These are designed to fit together so that pieces of equipment (the same size) can be stacked up and locked together.

- Ideal for stacking speaker boxes
- Has 4 x 4mm pan head fixing holes
- Dimensions 84(H) x 50mm each side

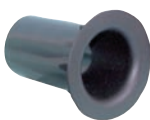


↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pack of 8	HM-3829	\$7.95	\$6.95	\$6.25

Flared Speaker Box Port

This port is flared to minimise air turbulence. It can be press fitted to the cabinet then sealed with caulk or silastic.

- Inner Dia: 58mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
120mm	CX-2688	\$4.95	\$4.45	\$3.90

Hook & Loop Tape

Ideal for holding grilles on speaker cabinets. One side is glued or stapled to the box & the other to the grille. The grille then sticks to the box.

- Ideal for many uses



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
300mm long	CF-2763	\$2.95	\$2.60	\$2.30

Spray-On Contact Adhesive

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet in/on speaker cabinets etc.



- Cannot be sent by air freight or post.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA-1504	\$16.95	\$14.95	\$13.35

Grill Cloth

High quality, acoustically transparent grill cloth is ideal for protecting expensive drivers and allowing all of the sound to get through.

- Black in colour
- Supplied in a 1.5 x 1m pack



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	CF-2752	\$17.50	\$15.70	\$13.95

SOUNDPROOFING & DEADENERS

Butyl Based Sound Deadening Material

Give your vibrating buzz-box a luxury car ride with this butyl-based, foil backed sound deadening material. By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc, you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut. Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX-3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.

- Thickness: 1.5mm
- Temperature range: -10 - 110°C



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
900 x 330mm	AX-3687	\$29.95	\$26.95	\$23.95

Combination Butyl/Foam Super Sound Deadener

Combining both the sound deadening properties of butyl material, and insulating properties of honeycomb foam, this is an easy single application solution for complete sound deadening and isolation that also offers thermal insulation. Consisting of a layer of our AX-3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX-3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and the ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.

- Thickness: 4.5mm (1.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
660 x 330mm	AX-3689	\$29.95	\$26.95	\$23.95

650gsm Acrylic Speaker Damping Material

Used to line speaker boxes for standing wave/resonance absorption. Also very effective for making acoustic treatment like bass traps in sound rooms and studios.

- High density



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
700(W) x 1000(L)mm	AX-3694	\$12.50	\$10.95	\$9.95

RELATED PRODUCTS

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FROM
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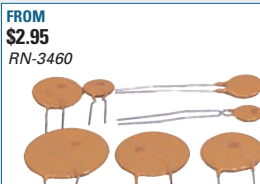
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POLYSWITCHES

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SIGHT & SOUND

MICROPHONES & ACCESSORIES

KARAOKE MICROPHONE MIXER

Karaoke Style Microphone Mixer

This unit will mix 2 microphones to video and audio input. It has separate microphone volume levels, tone control and a variable echo control. Supplied with 12V power adaptor, 2 sets of AV leads and 1 x 6.5 to 3.5mm stereo adaptor.

- Separate audio input level control
- Audio input is stereo
- On/Off power switch on back of unit
- Works with any 600 ohm dynamic mic. E.g. AM-4096/4099/4190/4192
- Dimensions: 140(W) x 90(D) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Karaoke Mic Mixer	AM-4222	\$69.95	\$62.95	\$55.95

2 Channel Wireless UHF Guitar Link

Firstly, this unit complies with the latest UHF frequency allocations for short range wireless PA transmitters. It operates on either 520.5MHz or 532.9MHz, user selectable (It does not have 2 input channels). The transmitter is very compact with an almost unnoticeable 70mm long antenna. A 1/4" (6.5mm) phone plug on the unit simply plugs into the guitar body.

Power is by 1 x AAA battery (not supplied). The receiver is very compact, measuring 115(W) x 80(D) x 25(H)mm. A telescopic antenna deploys to 270mm and folds down for transport. The front of the unit has pilot lights for RF signals, AF signal and power. A 12V AC adaptor is supplied to power this unit. Output is via a 3.5mm socket and a 3.5 to 6.5mm adaptor lead is included if necessary.

The entire unit comes in a sturdy ABS box with internal foam inserts for the rough-and-tumble of road trips. Instructions supplied.

Specifications	AM-4109
Transmitter	
Freq stability	0.002%
RF output	10mW
Power	Requires 1 x AAA
Range	60m max
Receiver	
Sensitivity	2µV (12dB)
Signal/noise	90dB
Power	Mains
Dimensions	115(W) x 80(D) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF Guitar Link	AM-4109	\$109.00	\$97.95	\$86.95

MICROPHONES

Unidirectional Dynamic Microphone

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and a plastic finish.

- Fixed 3 metre lead with 6.5mm plug.

Specifications	AM-4190
Type	Unidirectional dynamic
Frequency response	50Hz - 13kHz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - 6.5mm plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4190	\$9.95	\$8.75	\$7.75

Unidirectional Dynamic Microphone - XLR

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and XLR termination.

- Supplied with a 3m XLR to 6.5mm plug cable.

Specifications	AM-4192
Type	Unidirectional dynamic
Frequency response	50Hz - 13kHz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - XLR plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4192	\$14.95	\$13.35	\$11.70

Dynamic Unidirectional Professional Microphone

With professional styling, it features a cardioid polar pattern for reduced background noise and feedback. This microphone is ideal for use in theatres, nightclubs, public address systems and recording. Excellent frequency response and tough metal construction make this microphone great value.

- XLR termination
- With a 6m XLR to 6.5mm plug cable.

Specifications	AM-4099
Type	Unidirectional, dynamic
Polar pattern	Cardioid
Impedance	600 Ohms
Sensitivity	-72dB ± 3dB @ 1kHz
Frequency response	60Hz - 12kHz
Termination	6 metre cable, 6.5mm plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4099	\$29.95	\$26.95	\$23.95

Unidirectional Balanced Professional Vocal Dynamic Microphone

A top quality balanced mic suitable for singing and band work. Similar performance to those costing \$200 or more.

- Supplied with a 6m XLR to 6.5mm plug cable.
- Case made of zinc-diecast, low impedance.
- Compare with the Shure® SM58!

Specifications	AM-4096
Type	Unidirectional, balanced dynamic
Polar pattern	Cardioid
Impedance	500 Ohms
Sensitivity	-76dB ± 3dB @ 1kHz
Frequency response	40Hz - 17kHz
Termination	6 metre cable, XLR



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4096	\$44.95	\$40.45	\$35.95

RELATED PRODUCTS

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\$1.95
SB-2426



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LED MINILIGHT

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\$169.00
CS-2482



ACTIVE PA SPEAKER

P390

FROM
\$84.95
SL-3484



MAGIC LED LIGHT

P392

LAPEL MICROPHONES

Tie Clasp Microphone

Electret condenser tie clasp microphone. Supplied with alligator clip to attach to tie or shirt and 2 metres of cable to 3.5mm plug.

- Ideal for lectures, stage, video recorders etc.

Specifications	AM-4092
Type	Electret condenser
Polar pattern	Cardioid
Impedance	1kohm
Sensitivity	-67dB \pm 3dB @ 1kHz
Frequency response	20Hz - 16kHz
Power requirement	1.5VDC 0.7mA max
Termination	2 metre cable, 3.5mm plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4092	\$19.95	\$17.95	\$15.95

Tie Clasp Condenser Microphone

With excellent sensitivity and low noise, this is the ideal add-on microphone for your digital voice recorder or other portable recording device that only has a tiny built-in microphone. It's very light and unobtrusive, so is ideal for recording interviews, conferences or webcasts.

- Output is to 6.5mm plug
- Cable length 1200mm.

Specifications	AM-4101
Type	Condenser, tieclasp
Polar pattern	Cardioid
Impedance	2.2kohms
Sensitivity	-66dB \pm 3dB @ 1kHz
Frequency response	50Hz - 20kHz
Power requirement	1.5VDC 0.6mA
Termination	1.2 metre cable, 6.5mm plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4101	\$19.95	\$17.70	\$15.70

Stereo Tie Clasp Microphone

A handy accessory for stereo digital voice recorders or recording in stereo on your laptop. Independent left and right microphones for true stereo. Suitable for recording conferences, music etc.

Specifications	AM-4106
Type	Unidirectional stereo
Polar pattern	Cardioid
Impedance	2kohms
Frequency response	20Hz - 16kHz
Sensitivity	-68dB \pm 3dB @ 1kHz
Termination	1m lead, 3.5mm stereo plug



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4106	\$24.95	\$22.35	\$19.70

MICROPHONE INSERTS

Microphone Inserts

These devices are very flexible. Once power is supplied, they work beautifully. For example, you can solder them to a PCB for a mic input. You can refurbish an old handheld mic to make like new, etc..



STANDARD MICROPHONE INSERT

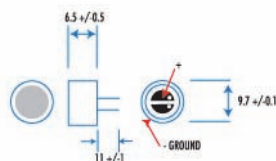
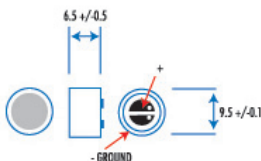
Replacement electret mic inserts for tape recorders and other low-cost microphones.

- Operates from a single 1.5V battery
- 10mm diameter. 50Hz - 15kHz
- Sensitivity 69dB. Used by OEM's
- Size: 6.5mm x 9.5mm dia

STANDARD MICROPHONE INSERT WITH PINS

PC mount

- Operates from a single 1.5V battery
- 9.7mm dia x 6.5mm high
- 50Hz - 15kHz
- Sensitivity 69dB
- Includes PC mount pins 11mm long



Description	Size(Dia x Hmm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Standard	6.5 x 9.5	AM-4010	\$2.35	\$2.09	\$1.85
Standard with Pins	9.7 x 6.5	AM-4011	\$2.35	\$2.09	\$1.85

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MICROPHONE ACCESSORIES

Boom Microphone Stand

Height adjustable with a boom that extends 600mm, so is suitable for vocals, overheads or micing up drum kits or pianos. Mic holder with 5/8" adaptor included.

- Steel construction
- Folds up to 850mm long



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4113	\$34.95	\$31.45	\$27.90

Desk Top Mic Stand

Designed for applications where you don't need a full-size mic stand. The build quality is excellent with diecast aluminium legs, steel column and padded feet.

- Adjustable up to a height of 200mm and folds up to 240mm long
- Includes mic holder with 5/8" adaptor



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4111	\$17.95	\$15.95	\$14.35

Expanding Microphone Holder

This expandable microphone holder will accept standard 22mm tapered microphones and will expand to accommodate larger diameter mics.

- Fitted with a 5/8" x 27 thread
- Black in colour



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4107	\$6.95	\$6.25	\$5.50

Gooseneck Mounting Base

With 5/8" thread. Surface mountable for microphone & goosenecks.

- Solid metal construction
- Supplied with mounting screws
- Size 44mm base dia



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4130	\$5.95	\$5.25	\$4.75

Flexible Gooseneck

- Metal - 450mm long
- 5/8" male to 5/8" female fittings



	Cat.	Qty 1+	Qty 4+	Qty 10+
450mm	AM-4127	\$14.95	\$13.35	\$11.70

USB MIDI Interface Cable

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc.

- Plug and play, no software or drivers required
- MIDI in and MIDI out connectors with LED indication
- Cable is 2 metres long



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4934	\$29.95	\$26.90	\$23.70

PRODUCT DATA

**We now have so much data and fact sheets
we cannot fit it all here! Check our website for
over 3,500 pages of data!**



SIGHT & SOUND WIRELESS MICROPHONE SYSTEMS

WIRELESS MIC SYSTEM COMPARISON

Use our selection guide to help choose...

	AM-4108	AM-4114	AM-4155	AM-4160	AM-4165	AM-4170
Channels	1	2	2	2	2	2
Frequency	525.5 MHz	Ch1: 525.1 MHz Ch2: 645.9 MHz	2.404-2.474 GHz	2.404-2.474 GHz	520- 694 MHz	520- 694 MHz
Transmission range	50m	60m	20m	30m	50m	80m
No. of Microphones	1	2	2	2	2	2
Mic Power supply	Rechargeable Battery Pack (3.7V 800mAh Li-Ion) & 2 x AA	2 x AA for each mic	2 x AA for each mic	2 x AA for each mic	1 x AA for each wireless mic	2 x AA for each microphone
Page	388	388	388	389	389	389



WIRELESS MICROPHONE SYSTEMS

Single Channel Wireless UHF Microphone

The Microphone is supplied with a USB rechargeable battery pack or has an option to be powered by 2 x AA batteries (not included). The systems effective range is 50m on average, making it ideal for street announcers/performers, pubs, club functions, etc.

Specifications	AM-4108
Frequency	525.5MHz
Frequency response	60Hz - 13kHz
Transmission range	Up to 50m
Mic Power Supply	1 x Rechargeable Battery Pack (3.7V 800mAh Li-Ion), 2 x AA (not included)
Receiver Power Supply	6 x AAA (not included)
Dimensions	Microphone 235(L) x 52(Dia.)mm, Receiver 85(L) x 63(W) x 19(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Channel Wireless UHF Microphone	AM-4108	\$79.95	\$71.95	\$63.95

2 Channel Wireless UHF Microphone System

This wireless UHF Microphone system has a transmission range of about 60m. It supports 2 channels and is supplied with two hand held microphones. The receiver contains a balanced output for 1 channel, or unbalanced for 2 channels mixed, and has level controls for each channel. The microphones are powered by 2 x AA batteries (not included) and a power adaptor is supplied for the receiver. Ideal for schools, churches, weddings, gyms, karaoke, functions, etc.

- Optional belt pack transmitter with headset microphone, available separately.

Specifications	AM-4114
Frequency	521.5MHz - 524.5MHz
Transmitter power	30mW
Transmission range	60m
Pick up	Dynamic or condenser
Dimensions	Microphone: 240(L) x 50(Dia.)mm Receiver: 210(L) x 140(D) x 42(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Channel UHF Wireless Microphone (includes two)	AM-4114	\$149.00	\$133.95	\$118.95
Spare Microphone Channel A	AM-4115	\$54.95	\$49.45	\$43.95
Spare Headset Microphone Channel A	AM-4116	\$54.95	\$49.45	\$43.95
Spare Microphone Channel B	AM-4117	\$54.95	\$49.45	\$43.95
Spare Headset Microphone Channel B	AM-4118	\$54.95	\$49.45	\$43.95



2 Channel 2.4GHz Digital Wireless Microphone System

This 2 Channel 2.4GHz Digital Wireless Microphone adopts ISM 2.4G digital audio frequency and automatically filters out radio interference. Features Smart ID code identifying synchronization technology and digital audio processing technology to provide a clear sound reproduction. The pre-set channels support multiple installations in KTV rooms without interference. It comes with an efficient battery power consumption design that helps the microphone to work continuously for up to five hours. Ideal choice for school and home entertainment.

The system includes two wireless microphones and a receiver unit.



Specifications	AM-4155
Carrier Frequency	2.404-2.474GHz
Available channels	2 channels
Band Range	2MHz
Dynamic Range	85dB
Total Harmonic Distortion	<0.1%

Receiver	
Power Supply	12-17VDC
Power Consumption	2W
Signal/Noise Ratio	>95dB
Receiving Sensitivity	-80dBm
Handheld Microphone	
Transmitter Power	10mW
Modulation Type	GFSK
Batteries Required	2 x AA
Continuous Usage	5 Hours



	Cat.	Qty 1+	Qty 4+	Qty 10+
2.4GHz 2 Channel Digital Microphone	AM-4155	\$209.00	\$187.95	\$166.95
Spare Microphone	AM-4156	\$99.95	\$89.95	\$79.95
Docking Charger to Suit	AM-4162	\$99.95	\$89.95	\$79.95

WIRELESS MICROPHONE SYSTEMS (CONTINUED)

Dual UHF Wireless Transmitter & Receiver for Wireless Microphone

This versatile dual channel UHF wireless system allows you to convert two XLR type wired microphones into wireless microphones. The receiver uses UHF 520-694MHz band to avert interference and features automatic frequency scan for an seamless operation in the available frequencies. It has 99 preset non-interfered channels. The receiver unit comes with an attached LCD display that clearly shows the RF level, AF level, channel and frequency. It also has two high gain antennas which provide a long wireless range up to 50 metres. Ideal for any professional field and media production work. The system includes the receiver unit and two plug-on wireless microphone transmitters. Microphones not included.

Specifications	AM-4165	Transmitter	
Carrier Frequency	UHF520-694MHz	Transmitter Power	mW (max)
Frequency Stabilization	< ±30ppm	Modulation Type	FM
Dynamic Range	>95dB	Deviation	±40kHz
Total Harmonic Distortion	<0.5%	Spurious Emission	>4dB
Frequency Response	40Hz-15kHz±3dB	Frequency Stabilization	±0.005%
Audio Output Level	Balance 400mV, Unbalance 400mV	Battery Required	1 x AA
		Current Consumption	<90mA
		Receiver	
		Power Supply	15-17VDC
		Power Consumption	2W
		Signal/Noise Ratio	>95dB
		Image & Spurious Rejection	>80dB
		Border upon Channel Rejection	>80dB
		Receiving Sensitivity	5dBuV
		De-Emphasis	50uS

All wireless microphone & guitar links shown on this page & page 386 are approved to the latest Wireless Authority Standards.



	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF Wireless Microphone System	AM-4165	\$339.00	\$299.00	\$269.00
Spare Microphone Transmitter	AM-4166	\$99.95	\$89.95	\$79.95

2 Channel Dual Diversity UHF Microphone System

A professional solution suitable for stage use. This 2 Channel Dual Diversity UHF Microphone features a true diversity receiver and guarantees no dead spot in working area. Features advanced digital pilot technology with 30 preset group frequencies. Each group has 8 frequencies and can ensure 200 systems without interference. The infrared automatic scan feature helps to search available frequencies. The microphone has a splendid LCD display that shows the RF level, AF level and microphone battery voltage. You can adjust the transmitter power (High/Low) from the receiver. The transmitting distance can read up to 80 metres. The system includes two wireless microphones and a receiver unit with rack mounting hardware.

Specifications	AM-4170	Receiver	
Carrier Frequency	UHF520-694MHz	Power Supply	15-17VDC
Frequency Stabilization	< ±30ppm	Power Consumption	3 Watt
Dynamic Range	>100dB	Signal/Noise Ratio	>95dB
Total Harmonic Distortion	<0.5%	Image & Spurious Rejection	>80dB
Frequency Response	40Hz-15kHz±3dB	Border upon Channel Rejection	>80dB
Audio Output Level	Balance 400mV, Unbalance 400mV	Receiving Sensitivity	5dBuV
		De-Emphasis	50uS

Handheld Microphone	
Transmitter Power	30mW
Modulation Type	FM
Deviation	40KHz
Spurious Emission	>60dB
Batteries Required	2 x AA
Continuous Usage	5 hours

DUAL CHARGING DOCK & BATTERY KIT TO SUIT AM-4170 UHF MICROPHONE

A rechargeable dual charging dock supplied with 4 x Ni-MH batteries and mains power adaptor. This charging dock is suitable for our AM-4170 2 Channel Dual Diversity UHF Microphone.

- Power supply: 5VDC/1.5A(supplied)
- Charging time: 6 hours



Headset Mic may vary from the one shown



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Channel UHF Dual Diversity	AM-4170	\$519.00	\$459.00	\$409.00
Spare Handheld Microphone to Suit	AM-4171	\$149.00	\$133.95	\$118.95
Spare Headset Microphone to Suit	AM-4172	\$149.00	\$133.95	\$118.95
Dual Charging Dock	AM-4173	\$99.95	\$89.95	\$79.95

Pro 2 Channel 2.4GHz Digital Wireless Microphone System

A professional 2.4GHz Digital wireless solution, this 2 channel wireless microphone system will not suffer from the frequency performance issues UHF solutions do (depending on the area, some UHF frequencies will experience interferences due to the digital dividend restack). This professional 2 Channel wireless microphone system adopts the ISM 2.4G digital audio frequency and automatically filters out radio interference. Features smart ID code identifying synchronization technology and comprehensive application of digital audio processing technology. Pre-set 16 selected channels, support multiple installation without interference. The device adopted an efficient battery power consumption design and the microphone can work continuously for five hours.

Specifications	AM-4160	Receiver	
Carrier Frequency	2.404-2.474GHz	Power Supply	12-17VDC
Available Channels	16 Channels	Power Consumption	2W
Band Range	2MHz	Signal/Noise Ratio	>95dB
		Receiving Sensitivity	-80dBm
Handheld Microphone			
Transmitter Power	10mW		
Modulation Type	GFSK		
Batteries Required	2 x AA		
Continuous Usage	5 Hours		



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Channel 2.4GHz Digital Microphone System	AM-4160	\$299.00	\$269.00	\$239.00
2.4GHz Digital Wireless LCD Microphone to Suit	AM-4161	\$119.00	\$106.95	\$94.95
Dual Microphone Dock Charger and Battery to Suit	AM-4162	\$99.95	\$89.95	\$79.95

MEGAPHONE

10 Watt Multifunction Megaphone with Message Recorder & Torch

Get your message across loud and clear with this megaphone. Battery operated, simple to operate and outputs up to 10WRMS. It features a volume control, alarm and whistle function to get attention and has a built in message recorder which allows you to replay announcements repeatedly. It even has a 3W high power LED torch for night time search and rescue applications. Ideal for sporting events, crowd control, peaceful rallies, or when evacuating a building.

- Strap included

Specifications	AM-4055
Power output	10WRMS
Sound level of horn	110-115dB
Requires	8 x AA batteries
Dimensions	270 (L) x 162(W) x 235(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
AM-4055		\$84.95	\$76.45	\$67.95

PORTABLE PA

Portable Wireless PA Amplifier & Microphone

The system consists of a compact yet powerful amplifier with a built in crystal locked radio receiver and a wireless microphone. The system is equipped to accept a wired microphone and an auxiliary music source. The wireless microphone transmitter has an on/off/stand-by switch, microphone jack, and sensitivity control. An audio output socket is also provided. A sensitive microphone is included and is attached to a small ear hook gooseneck that allows hands free operation. The amplifier runs on an internal 12V rechargeable battery or 240VAC mains.



- 20WRMS output
- 6 inch speaker
- 100Hz to 16kHz bandwidth
- Dimensions: 305(H) x 182(W) x 125(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6" 20WRMS	AM-4075	\$139.00	\$124.95	\$110.95

PARTY & PUBLIC ADDRESS (PA) SPEAKERS

6.5" Rechargeable Speaker with MP3 Player with Bluetooth®

An affordable and versatile portable PA speaker. It comes with an internal rechargeable battery to power the on-board amplifier, producing a respectable 20WRMS through the 6.5" full range speaker. It features Bluetooth® functionality for streaming audio tracks from your Smartphone, Tablet or laptop. Alternatively, you are able to insert a USB or SD memory card to play MP3 tracks or plug in an auxiliary sound source. A microphone socket is provided, perfect for jam and karaoke sessions, lectures, tour groups and street performance. The speaker also features an FM radio, digital display and rugged ABS housing with moulded handle on top, making it easy to carry.

- USB/SD/AUX input
- FM radio
- Bluetooth® support
- Volume/Treble/bass control



Specifications	CS-2541
Speaker	6.5" coaxial driver
Output power	20WRMS
Frequency response	65Hz to 20kHz
Battery	12V 4.5Ah Sealed Lead Acid
Usage time	8 hours
Charge time	10 hours
Dimensions	325(L) x 221(W) x 217(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6.5" Each	CS-2541	\$149.00	\$133.95	\$118.95

6.5" Rechargeable PA Speaker with UHF Microphone, MP3 Player & Bluetooth® Technology

This portable rechargeable 6.5" PA speaker suits a variety of indoor and outdoor applications from wedding or birthday celebrations to school events. It can play MP3 music files from a USB and SD card, or music streamed from a Smartphone, Tablet or PC via Bluetooth®. There is a wireless UHF microphone included, perfect for jam and karaoke sessions, lectures, tour groups and street performance. Integrates a rechargeable battery, providing a run time of up to 4 hours. Other features include wired microphone input, 3 channel mixer, reverb and 6.35mm line output. Moulded into a rugged ABS housing with moulded handle.

- USB/SD/AUX input
- Bluetooth® support



Specifications	CS-2543
Speaker	6.5" full range
Output power	20WRMS
Amplifier	Class-D
Frequency response	62Hz to 18kHz
Battery	12V 2Ah Sealed Lead Acid
Charging time	8 hours
Working time	3 - 4hours
Reverb	Echo
Power Supply	AC Input voltage 110V-240VAC
Dimensions	325(H) x 225(W) x 220(D)mm, 4.5kg

	Cat.	Qty 1+	Qty 4+	Qty 10+
6.5" Each	CS-2543	\$289.00	\$259.00	\$229.00

8" Rechargeable PA Speaker with UHF Microphone

An all-in-one compact mobile wireless sound system perfect for parties, schools, auditoriums or a street performance. UHF wireless receivers are built-in and it includes one headset type microphone and UHF belt pack transmitter. It can also function as a music player in a number of ways.

There is a 3.5mm socket for connecting other MP3 players or Bluetooth® connectivity for wireless playback. It also has a built in MP3 player so just plug in a USB drive or SD card loaded with MP3s and it can play them back. It includes rechargeable batteries with a run time of about 6-8 hours so you can set it up in a flash and keep it running for the duration of the performance, speech, or hoedown. It can be recharged with the supplied power cable. Features an attractive perforated steel grill cover that is powder coated.



- Bluetooth® wireless technology
- USB and SD card slots for MP3 playback
- Pole mount socket (no mounting hardware included)

Specifications	CS-2510
Max output power	40WRMS
Frequency response	62Hz - 18kHz
Speaker drivers	LF: 8" (200mm) cone, HF: " (25.4mm) Compression driver
Audio inputs	XLR for microphone, 1/4" for instrument, RCA for CD player, 3.5mm stereo input
Audio output	6.3mm (1/4") phone jack for recorder
Recharge time	5 hours
Usage time	6-8 hours
Weight	8kg
Dimensions	320(W) x 310(D) x 455(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
8" Each	CS-2510	\$399.00	\$359.00	\$319.00

8" Active PA Speaker

A compact but powerful 8" Active PA Speaker. This ultra-compact and lightweight speaker delivers superb audio clarity and power needed for your next party, event, conference, etc. The rugged injection moulded case incorporates handles on either side for portability and also has a secured speaker mounting hole on the bottom. It has RCA line level, XLR and 6.5mm microphone inputs and also features volume, bass and treble controls. 240VAC mains powered and is supplied with IEC lead.



Specifications	CS-2482
Output power	80WRMS
Voltage	Mains powered
Frequency range	65Hz - 20kHz
Sensitivity	92dB
Dimensions	380(H) x 220(W) x 195(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
8" Each	CS-2482	\$169.00	\$151.95	\$134.95

PARTY & PUBLIC ADDRESS (PA) SYSTEMS (CONTINUED)

12" & 15" PA Party Speakers

Great quality and performance at very affordable prices. Incorporates long throw woofers and efficient compression drivers to deliver superb clarity and powerful bass notes. These rugged and durable plastic speakers have metal protective grilles and are supplied with a telescopic handle and luggage wheels for ease of portability. Perfect for parties, DJ applications, churches, conferences, etc. Match with our Digitech home component amplifiers (AA-0470) for home party use or our rack mount amplifiers (AA-0477 & AA-0479) for professional PA applications.



Specifications	CS-2487	CS-2488
Power	150WRMS	180WRMS
Frequency Response	20Hz - 20kHz	18Hz - 20kHz
Sensitivity	96dB	98dB
Impedance	8 ohm	8 ohm
Dimensions	600(H) x 410(W) x 320(D)mm	680(H) x 470(W) x 390(D)mm

↑		Cat.	Qty 1+	Qty 4+	Qty 10+
12"	Each	CS-2487	\$189.00	\$169.95	\$150.95
15"	Each	CS-2488	\$209.00	\$187.95	\$166.95

Portable PA Active Speakers

One of the great hassles with serious PA gear is having to moving them gig to gig. Our new range of Active PA speakers now come with a retractable handle and luggage wheels, so you can move them with ease without throwing your back.

These 2 way active PA speakers still produce great clarity and powerful bass through their long throw woofers and efficient compressions drivers. Feature strong and durable moulded enclosures and tough metal grille to protect the drivers, and now feature a Bluetooth® smart device for wireless audio streaming from your computer or Smartphone. Alternatively, you may use the USB or SD card slot to directly play your MP3 files. It also has RCA line level, 6.5mm microphone and balance XLR inputs.

- Represent great value for money
- Ideal for DJ, PA, schools, sporting events, churches, wedding, conferences, etc.



Specifications	CS-2483	CS-2484	CS-2486
Power	100WRMS	150WRMS	180WRMS
Voltage	Mains powered	Mains powered	Mains powered
Frequency response	25Hz - 20kHz	20Hz - 20kHz	18Hz - 20kHz
Sensitivity	96dB	96dB	98dB
Impedance	8 ohms	8 ohm	8 ohm
Dimensions	550(H) x 370(W) x 300(D)mm	600(H) x 410(W) x 320(D)mm	680(H) x 470(W) x 390(D)mm

↑		Cat.	Qty 1+	Qty 4+	Qty 10+
10"	Each	CS-2483	\$259.00	\$229.00	\$199.00
12"	Each	CS-2484	\$319.00	\$279.00	\$249.00
15"	Each	CS-2486	\$369.00	\$329.00	\$299.00

15" Portable Active Speaker with Dual UHF Microphones



A multi-function portable active speaker with a myriad of functions. This 2 way active speaker has a built-in dual channel wireless UHF microphone system that meets the new standards, and 2 hand held microphones are supplied that neatly tucks in the side of the speaker when not in use. The sound is reproduced with crystal clear quality through its 15" long throw woofer and high efficiency compression driver. The rugged plastic case integrates a telescopic handle and luggage wheels that allows you to move from places without the risk of injuring your back.

Also includes an SD and USB card MP3 player, RCA line and 6.5mm inputs. Has level, volume, bass and treble controls to fine tune the sound. A truly feature packed and versatile speaker. It can be used in karaoke parties, street performances, conference, churches, wedding functions, real estate agent auctions, business promotions, etc. The applications are endless.



Specifications	CS-2490
Power	100WRMS
Voltage	Mains powered
Frequency Response	50Hz - 20kHz
Sensitivity	96dB
Impedance	4 ohm
Dimensions	690(H) x 440(W) x 430(D)mm



↑		Cat.	Qty 1+	Qty 4+	Qty 10+
15"	Each	CS-2490	\$519.00	\$459.00	\$409.00

10" PA Speaker System with 2 Channel UHF Microphones

This is a feature-packed, compact, lightweight portable PA system, which includes 2 x 75WRMS speakers, 6-channel mixer and 2 x Wireless UHF microphones. Its weight has been optimised through a clever use of PP plastic, while the Class D amplifier leaves its performance uncompromised. The mixer features peak indicator and a variety of controls to fine-tune the audio frequency range. It plays MP3 via Bluetooth® Technology, a SD card or a USB flash drive. The PA system can also be used an instrument amplifier. Transportation is easy; the mixer neatly locks into place behind one speaker while the other serves as storage for your microphone and cables.

- UHF Microphone Frequencies: - CH 1: 521.7 MHz - CH 2: 550.3 MHz
- Class D amplifier
- 6 channel mixer - each channel has a peak indicator, treble, bass, effect and volume controls
- Accepts a SD card or USB flash drive for MP3 playback
- Use with a balanced or unbalanced mic or with an instrument
- On/off switch for phantom power
- Mains powered



Specifications	CS-2565
Power	2 x 75WRMS
Frequency range	50Hz - 20kHz
Dimensions	475(H) x 320(L) x 320(W)mm



↑		Cat.	Qty 1+	Qty 4+	Qty 10+
10"	Each	CS-2565	\$729.00	\$649.00	\$579.00

SIGHT & SOUND PARTY & CONCERT LIGHTING

DJ EQUIPMENT

3 Channel Mini Mixer with USB Interface

This 3 channel mini portable USB mixer suits a small home studio or on-the-go recording enthusiast. Its compact size doesn't clutter your desk space, and also makes it easy to carry to other studios or venues. Power using the supplied mains power adaptor or from the USB port of a computer. Supplied with mains power adaptor and USB lead.

- Ultra-compact and ultra-low noise analogue mixer with USB/Audio interface
- Built-in stereo USB/Audio interface to connect directly to your computer
- State-of-the-art Mic Preamp comparable to stand-alone boutique preamps
- 2-band graphic EQ for warm and musical sound
- 2-Track input assignable to Headphone or Main Mix output
- Main Mix plus separate Phones output
- High-quality components and exceptionally rugged construction ensure long life



Specifications	AM-4208
Operating System	Windows® 2000, XP® or higher, Mac® OS 9.0.4, 10.X or higher
Power supply	USB connection, adaptor (5VDC, 500mA)
Power consumption	2.5W
Dimension	144(L) x 100(W) x 42(H)mm, 0.45kg

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Channel	AM-4208	\$99.95	\$89.95	\$79.95

PARTY LIGHTING - MANUAL CONTROL

Rotating Disco Ball with LED Spotlights

Create an amazing light show by hanging these lights on the ceiling to get the desired mood on your next party. Turn on and dance the night away with this brilliant mirror ball and LED spotlights station. It features an automatic rotating mirror ball, two adjustable angle spotlights with 6 red, green and blue LEDs each. It also has an additional 4 red and blue LEDs on the base for maximum effect.



- Mains power adaptor included.
- Dimensions: 260(L) x 130(W) x 230(H)mm

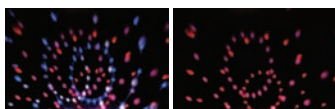
	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGB	SL-2916	\$39.95	\$35.95	\$31.95

Rotating LED Mini Light with DMX Control

Add some light and colour to your next party or function with this multi-coloured LED rotating light. It features 6 x different coloured LEDs covered by a transparent plastic dome with hexagonal patterns to help create a eye catching display. The dome remains stationary while the LEDs spin inside. Features DMX512 input and output ports which will give a huge amount of control or automation on the rotation of the light. You can also switch it to auto mode so the light automatically oscillates depending on the music.



- The ball features a moulded mounting bracket with screw holes for installation in almost any location.



Specifications	SL-3456
LED colours	Red, Green, Blue, Yellow, White, Purple
3 Control modes	Sound activated, DMX512, Remote control
Input voltage	90-240V 50/60Hz
Light power	30W>
Dimensions	175(Dia) x 140(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Rotating	SL-3456	\$54.95	\$49.45	\$43.90

Rechargeable RGB LED Mini Ball with Bluetooth®

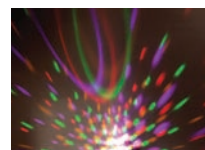
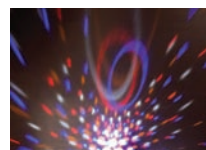
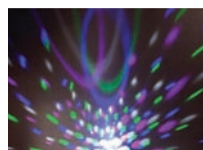
This magic ball is all you need to get your party rolling. Featuring Bluetooth connectivity to play music from your Smartphone to the built-in speaker, and then fills the room with ecstatic light that spins and dances to the beats. The funky glass dome houses 6 LEDs to emit lights in amazing colours and is even powerful enough to project outdoors onto trees and walls etc. There are also plenty of input options for everyone to play their favourite tracks including USB socket and SD Card slot.



**NEW
2016**



- Rechargeable battery
- Includes power supply and remote control
- Dimensions: 180(Dia) x 150(H)mm

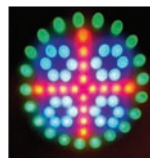


	Cat.	Qty 1+	Qty 5+	Qty 10+
Bluetooth®	SL-3482	\$69.95	\$62.95	\$55.95

RGB LED Disco Light

A compact sound activated RGB LED party light that will help to create a fantastic atmosphere for any special event or occasions. It can be operated automatically to create very bright coloured patterns in red, green and blue with 61 LEDs.

- Highly portable and durable this party starter is great for mobile or permanent installations.



Specifications	SL-3441
Mains supply	240VAC
Power consumption	10W
Dimensions	200(L) x 108(W) x 160(H)mm



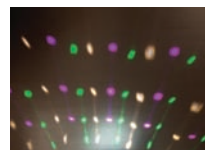
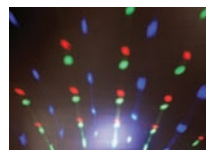
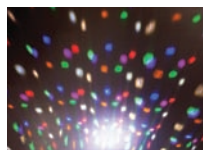
	Cat.	Qty 1+
	SL-3441	\$59.95

9W Galaxy Magic LED Light with DMX

A LED moving stage light with 9 x 1W LED lights that product 9 different colour combinations and effects. Select between automated colour patterns, sound activation or DMX controlled. Adjustable handle angle. Ideal for stage lighting, club and party applications.

Comes with power supply & remote.

Specifications	SL-3484
Light Source	9 x 1W
Source Lifetime	Rated 200,000 hours
Power Supply	100-240V 50-60Hz
Rating Power	10W
DMX Channels	7
Play Mode	Auto, Sound Active, DMX512, Remote

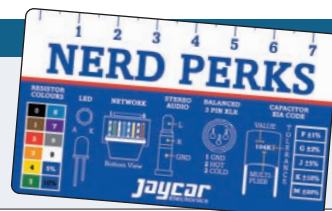


	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-3484	\$84.95	\$76.45	\$67.95

NERD PERKS REWARDS CARD

**Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!**

Sign-up in-store or online. *Conditions apply. See page 7 for details



PARTY LIGHTING - MANUAL CONTROL (CONTINUED)

LED Moving Head Stage Light with DMX Control

An LED moving stage light with 7 extremely powerful LED lights that produce a colour combination of red, green, blue and white. Select between automated colour pattern, sound activated or DMX controlled. The head can pan 360° and tilt 180°, and the light features changeable electronic strobes and dimmer functions. Ideal for small stage lighting, club & party applications.

- Mains powered
- Pan/tilt invert options
- 18 DMX channels

Specifications	ST-3604
Power consumption	80W
Light source	7 x 10W RGBW (4 in 1)
Beam Angle	45°
Play mode	Sound, Auto, DMX512, Master/Slave
Power cable length	1.5m
Dimensions	240(H) x 177(L) x 177(W)mm, 2.8kg



	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGBW	ST-3604	\$369.00	\$335.00	\$299.00

STAGE LIGHTING

Power Light "Partybar" Kit

This unit consists of a sturdy metal stand that deploys from 1.3m to a massive 2.15m (over 7 feet.) The light bar fits perpendicularly to the stand which holds 4 x gymbal mounted high efficiency multicolour par light units 250mm Dia. with 3 LED lamps in each. The entire system is connected together with leads (supplied) and connected to a foot-operated controller. Supplied with Mains (240V) connector, T-bar, stand, footswitch and carry bags.

- Ob-3 channel control & 15 DMX channels.
- 12 built-in auto programs.
- Easy trigger-music activated mode
- Easy to break down at end of gig
- Creates superb colour wash effects
- Variable flash rate
- Light bar dimensions:
910(L) x 242(H) x 48(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Party Light Bar Kit	SL-3469	\$379.00	\$339.00	\$299.00

18 x 1W RGB LED Par Stage Light

Add some colour to your stage or next party with these par lights. Each light features super bright LEDs that can change colour between white, red, green and blue, which can be controlled using the built-in program, sound activation via the built-in microphone, from the included slim remote control, or from a DMX controller (available separately). The supplied bracket allows you to mount the light permanently or placed on a table for temporary use. Two models to choose from.

- DMX512 control
- Mains powered
- Fan cooled



ST-3600



ST-3602



Specifications	ST-3600/ST-3602
LED colours	Red, Blue, Green and White
Control modes	Sound Activation, Built-in program, master-slave, Remote control
Dimensions	175(L) x 175(H) x 105(D)mm
Weight	930g

	Cat.	Qty 1+	Qty 5+	Qty 10+
18 x 1W LEDs	ST-3600	\$74.95	\$67.50	\$59.95
7 x 4W LEDs	ST-3602	\$119.00	\$106.95	\$94.95

Lighting Stand

This strong and sturdy lighting stand will extend from a minimum height of 1,530mm to a maximum of 3,650mm and is designed to carry up to 20kgs on the square section cross tree.

An integrated tripod support has collapsible legs that extend up to 750mm from the centre line of the stand, giving an overall base of 1,500mm which provides good stability even when the stand is fully extended.

The cross tree has 4 bolts for attaching up to 8 Pin Spots or other attachments.

The entire stand is finished in matt black.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	CL-2800	\$109.00	\$97.95	\$86.95

Light Clamp

Used to secure the pinspot lights to a mounting stand.

- Gap size: 0 - 70mm
- Dimensions: 78(L) x 45(H) x 30(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-2969	\$5.95	\$5.25	\$4.75

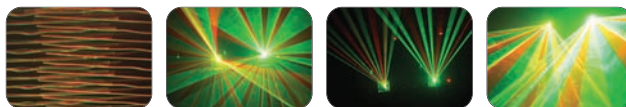
SIGHT & SOUND PARTY & CONCERT LIGHTING

LASER LIGHTS

DMX Powered Laser Beam

Unleash a barrage of atmosphere creating lasers at your next party, concert, or stage production. This model features an XLR out plug that allows you to daisy-chain multiple units together for full DMX controlled visceral ambience. Of course a single unit can also be controlled if your requirements aren't so intense. There's also a mic at the front so you can sit the unit near a speaker for auto laser mode. Dip switch at the rear allows control of sound active mode, auto mode, and to switch DMX addresses on or off. Mount to your speaker stand or other frame work with the supplied bracket.

Specifications	SL-3451
Laser colour	Red, Green
Sound control	Auto, DMX 512 (7 channels)
Laser patterns	More than 64 laser patterns
Power supply	240VAC 50Hz
Dimensions	363(L) x 143(W) x 67(H)mm



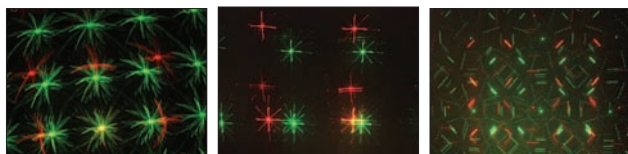
	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser DMX	SL-3451	\$269.00	\$239.00	\$209.00

Small Red/Green Laser Light Show

A small and simple Red/Green laser light show for adding colourful ambience to a room.

Includes a mounting bracket and flexible tripod stand (that's also great for camera mounting!).

The remote control can adjust the mode, pattern, speed, and lets you switch between red/green/both colours.



Specifications	SL-3455
Patterns	Dots, joining dots, exploding dots, tron dots
Modes	Fast, slow, medium
Power supply	240VAC 50Hz
Dimensions	365(W) x 145(D) x 70(H)mm



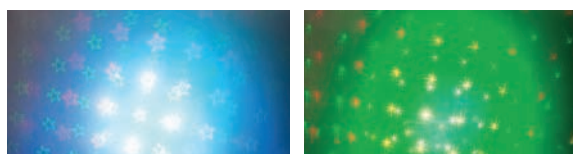
	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser	SL-3455	\$99.95	\$89.95	\$79.95

Red/Green Mini Laser Light Show with RGB LED

A mini laser light show that doesn't skimp on features. It includes a full colour RGB LED that adds vibrancy and substance to each laser pattern by cycling through various colours with each show. With the remote control you can cycle through patterns, modes, switch between red or green lasers, adjust the speed and more. It also has a microphone so when positioned near a speaker in music mode the display will change in sync with the music.

A built in bracket and tripod with flexible legs is included for mounting onto AV gear or for simply standing on a desk.

An easy to use laser light show great for restaurants, foyers, or parties.



Specifications	SL-3453
Light modes	Static, rotate clockwise/counter-clockwise, blink
Control modes	Sound activated/automatic
Patterns	Star-field, flowers, rotating parallel dots, quasars, alternating dots, star-shapes
Power supply	240VAC, 50Hz
Dimensions	140(L) x 105(W) x 55(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Mini Laser	SL-3453	\$169.00	\$151.95	\$134.95

STROBES

Rectangular Strobe Light - 24 LED

LEDs haven't always been a suitable alternative for illumination, accent and other general lighting application. However recent developments in production of high intensity LEDs and the ever decreasing price has allowed for these energy efficient and long lasting light source to make their way to consumer orientated lighting products. This strobe light has super high intensity LEDs, that will add the necessary life to any party and produce an eye catching array of lighting effects to attract attention.

- Can be set to flash at a slower fast rate and are supplied with adjustable brackets for optimal positioning.



	Cat.	Qty 1+	Qty 5+	Qty 10+
24 x White LEDs	SL-2895	\$19.95	\$17.70	\$15.70

Mini Strobe Light - Xenon

This unit uses a xenon flash tube and has a variable flash rate up to 10Hz.

- Operates on 240 VAC
- Supplied with a 1.7m cable
- Domestic use only
- The unit is housed in a compact case measuring 85(W) x 50(H) x 125(D)mm and is fitted with an adjustable mounting bracket



NEW & IMPROVED



	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-2990	\$24.95	\$22.35	\$19.70

74 White LED Strobe Light

This mains powered mini strobe features 74 super bright white LEDs with adjustable flash rate and sound activation. It is made from a strong plastic to keep the weight down to just 0.4kg and is supplied with mounting hardware. Energy efficient and long lasting party light ideal for domestic use.

- 74 super bright white LEDs
- Adjustable flash rate
- Dimensions: 140(L) x 120(Dia.)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
74 x White LEDs	SL-3464	\$49.95	\$44.90	\$39.90

TECH TALK

DMX512 EXPLAINED

DMX or DMX512 is a communications protocol used for controlling devices in stage and theatrical applications. It is used to transmit digital multiplexed signals – DMX stands for Digital Multiplexed Signals. The DMX protocol is simple, robust and reliable.

DMX512 provides up to 512 control channels per data link. It can be seen as 512 sliders on a lighting console, connected to 512 light bulbs. Each slider's position is sent over the data link as an 8-bit number having a value between 0 and 255. The value 0 corresponds to the light bulb being completely off while 255 corresponds to the light bulb being fully on. A technician would use a DMX512 setup to control lights, dimmers, fog machines or any other DMX-compatible device connected to the data stream.

To learn more visit the Primers section on the Jaycar website

SPECIAL FX

Rave Fog Machine

This tough fog machine will add the extra dimension to any mobile DJ setup, home party or disco lighting - with laser light shows, mirror balls and other party lighting coming out in full effect. The unit produces clouds of white fog on demand with the use of an illuminated 3m wired remote control. Features an adjustable mounting bracket, tough metal construction and fluid gauge.

- 240VAC operation
- 70 cubic metres/min fog output
- 800ml fluid capacity
- 330(L) x 160(W) x 140(H)mm
- Fog juice sold separately (AF-1212)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine	AF-1214	\$149.00	\$133.95	\$118.95
Fog Juice 1 Litre	AF-1212	\$17.95	\$15.95	\$14.35

DMX Fog Machine

The ambience and mystique associated with fog and mist is excellent at nightclubs, parties, and spooky film re-enactments. This unit gives you a range of control options which include the ability to set the machine to burst fog for specific durations at certain intervals as well as to manually trigger with the supplied remote control. But the real standout feature is the support for DMX. Hook this up to your DMX512 controller and fog will waft out with the beats allowing total customisation over your stage or party effects.

- Tank capacity: 1.2L
- Remote included
- Dimensions: 335(L) x 150(W) x 186(H)mm



Fog juice to suit - AF-1212 (available separately)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine	AF-1213	\$189.00	\$169.95	\$150.95
Fog Juice - 1 Litre	AF-1212	\$17.95	\$15.95	\$14.35

Strawberry Essence Scent for Fog Machines

Strawberry essence additive that provides a more desirable smell to your fog machine. Just add a few drops to the fog juice container on your fog machine, and hey presto, strawberry scented fog!



	Cat.	Qty 1+	Qty 4+	Qty 10+
20ml	AF-1211	\$19.95	\$17.95	\$15.95

CASSETTE PLAYER

Portable Cassette Tape to MP3 Encoder with PC Connection

Dust off your old cassette tapes and rescue your retro-chic 80's and 90's music collection with this tape to MP3 encoder. Simply install the included software to your computer, plug in the encoder via USB and you're ready to digitally convert, restore and archive all your precious cassette music. Digitally remaster the soundtracks of your youth to enjoy and share on CD, YouTube, iPod®, iPhone® etc. Supplied with USB cable, simple to follow instructions, plus software: Audacity.

- Play, stop, rewind and fast forward buttons
- Converts to MP3 or WAV file formats with track recognition
- Includes headphone socket
- PC requires 1 x USB port and 1 x CD drive
- Windows compatible software
- Powered from USB port or requires 2 x AA batteries
- Size: 118(W) x 93(L) x 32(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4071	\$69.95	\$62.95	\$55.95

BUBBLE MAKERS

Battery Operated Portable Bubble Machine

Children love bubbles and this portable machine creates hundreds of bubbles every minute! Simply switch the bubble machine on and watch it blow plenty of fun shaped bubbles into the air. Complete with a portable carry handle, this is the only thing you need to bring to any party!



- Requires 4 x C-sized batteries (not included)
- Recommended Bubble Liquid - AB-1222 (available separately)



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AB-1224	\$24.95	\$22.50	\$19.95

Professional Mains Operated Bubble Machine

This powerful bubble machine will blow you away. At 20 rotations per minute, this party animal creates countless bubbles in the instant and won't stop until you pull the plug. Perfect for birthdays, parties, weddings or any occasions where you want lots of fun that you can see and touch.

- Carry handle with mounting hole for raining bubbles
- Mains powered
- Suitable Bubble Liquid: AB-1222



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AB-1229	\$59.95	\$53.95	\$47.95

EFFECT LIGHTING

40 Watt Blacklight Fluoro Tube



Used extensively for live music, discos, night clubs, and great for parties. At our new low prices, you can now afford them.

- Requires standard 40 Watt fluoro fitting.
- Dimensions: 1225(L) x 25(Dia)mm.

	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	SL-3152	\$29.95	\$26.95	\$23.95

Mini Ultra-violet Fluoro Light with Torch

Use to detect counterfeit currency, to check for fake ID, gemstone and mineral inspection, or to just have fun by making objects glow. Includes small white spotlight.

- 4W UV lamp
- Hand carry strap
- Requires 4 x AA batteries
- Dimensions: 160(L) x 52(D) x 23(W)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-3146	\$14.95	\$13.35	\$11.70

SIGHT & SOUND MULTI-BAND RADIOS

WORLD BAND & DAB+ RADIOS

TECH TIP

WHAT IS WORLD BAND?

World Band Radios are those radios that are capable of tuning into radio programs generated by, say the British BBC, Radio Australia (Australian ABC Radio programs), Voice of America, Radio Vatican, etc. These programs are transmitted on a regular weekly basis in any one 24 hour period. It is generally preferable to use 24 hour time, linked to GMT (Greenwich Mean Time) which is the time it is in London (UK) so that confusion is eliminated as when the program is broadcast.

There are dozens and dozens of programs from countries all over the world in the special languages of these countries. For example if you are an Australian citizen but originally from Greece, you can tune into stations that enable you to keep your knowledge of the language up to date. The stations typically have a lot of local news which you would normally not hear.

The World Band stations are generally broadcast in several frequencies at the same time, typically between about 1.8MHz & 29.00 MHz, especially between 7 & 21MHz. You can look up the broadcasting details on Google etc.

PHASE-LOCKED LOOP (PLL)

Phase-Locked-Loop is a circuit configuration invented over 80 years ago. Originally the circuit was so complex that it only appeared in expensive radios. With modern microchip technology, the PLL got a lot cheaper. The benefits of PLL technology enabled receivers to remain on a station frequency with great accuracy. The radio circuit did not 'drift'. PLL technology, though still not cheap, is a hallmark of quality short wave radios and that's why Jaycar specifies them.

9 Band FM/MW/SW Pocket Radio



A powerful little radio capable of receiving FM/MW/SW 1-7 bands. Features full clock functions, an alarm, antenna, and a 3.5mm headphone jack for personal listening.

Also features a handy fold-out stand so it can sit on a table at a comfortable viewing angle.

- Not PLL



Specifications	AR-1736
FM	88 - 108MHz
MW	530 - 1600kHz
SW	5.80 - 17.90kHz
Connections	3.5mm headphone jack
Power	2 x AA batteries or 3VDC plugpack (available separately)
Dimensions	110(L) x 70(H) x 24(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1736	\$24.95	\$22.35	\$19.70

AM/FM/SW Rechargeable Radio with MP3



A tri-band compact, portable AM/FM/SW radio with built-in MP3 player and digital clock. Listen to your favourite local AM/FM stations or international programs on the SW band. You can also connect a USB drive or microSD card and listen to MP3 tracks. Features a blue backlit LCD for easy use in the dark. No need to buy batteries, it has a built-in rechargeable Li-ion battery inside and charges via the supplied USB cable. Also features a 3.5mm headphone jack for private listening. Supports USB flash drive and microSD card (32GB max)

- USB charge cable supplied
- Not PLL



Specifications	AR-1721
FM	70-108MHz
MW	522-1710kHz
SW	5.95-21.85MHz
Connections	3.5mm headphone jack
Power	Built-in rechargeable Li-ion battery
Dimensions	114(L) x 70(H) x 25(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1721	\$34.95	\$31.45	\$27.95

World Band AM/FM/SW/LW/AIR PLL Radio



A PLL world band radio loaded with a great list of features but easy to operate. Select from 5 available bands, FM, AM(MW, with 9 or 10k step), SW, LW and AIR bands. Tune to a desired frequency using the fast or slow scroll function and store up to 500 of your favourite radio stations.

- Sleep function up to 120 minutes
- Manual, auto, or preset station search
- Battery indicator
- Includes carry case
- Lock button



Specifications	AR-1733
AM (MW coverage)	522 - 1620 kHz(9k) 520 - 1710 kHz(10k)
FM coverage	87.5 - 108.0MHz
SW coverage	2300 - 26100Hz
LW coverage	153 - 279kHz
AIR coverage	118 - 137MHz
Power	Requires 2 x AA batteries
Dimensions	120(W) x 75(H) x 30(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1733	\$79.95	\$71.95	\$63.95

DAB+ COMPONENT RADIO

DAB+ Radio Component

Designed to fit with standard size hi-fi components, this tuner offers a complete future-proof DAB+ radio solution; just sit it on top of your existing hi-fi receiver. Like all DAB+ devices, it displays program, artist, song and station information and has full preset memory functions. Not every station is currently broadcasting on digital, so there's also an FM section with station presets, auto-tuning etc. For anyone who's heard digital radio, the future is as crystal clear as the sound quality.

Specifications	AR-1753
Outputs	RCA analogue, S/PDIF optical digital
Station presets	6
FM	88 - 108MHz
Dimensions	430(W) x 72(H) x 240(D)mm



NOT AVAILABLE IN NEW ZEALAND



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1753	\$249.00	\$223.95	\$198.95

RELATED PRODUCTS

FROM

\$15.95

WQ-7301



TOSLINK CABLE

P365

FROM

\$6.95

WA-7062



RCA CABLE

P362

FROM

\$7.95

AA-2016



HEADPHONES

P401

FROM

\$39.95

AA-0472



STEREO AMP

P379

WORLD BAND & DAB+ RADIOS (CONTINUED)

World Band AM/FM/SW PLL Radio

Truly an ideal radio for the casual user and the enthusiast. It offers FM, MW(AM) stations and three Short Wave (SW) stations which range from 1,711kHz to 29,999kHz for receiving international broadcasts. The analogue tuning is assisted with a digital display and a tuning step, select fast for scrolling through the frequency or slow for that fine adjustment. Uses a Phase-Locked Loop (PLL) to ensure a stable reception. This unit is built with high performance IC's and MOSFET's that provide high sensitivity, strong anti-interference, low background noise and distortion. Includes a large back lit LCD displaying the frequency, clock, battery level and signal strength indicator. Other features includes AM RF gain, AM bandwidth switch, internal/ external antenna switch, Local/DX antenna switch, IF out, total of 50 presets - 10 presets for each band (AM/FM/SW1/SW2/SW3), alarm function, snooze button, button lock, and the list goes on. Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- RF gain control
- Bass & treble controls
- Key lock
- IF output
- Line in and out
- Earphone socket
- Speaker 5W/4 ohms
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated

Specifications	AR-1748
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
SW	1,711-10010kHz; 9,990-20,010kHz; 19,990-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band AM/FM/SW PLL Radio	AR-1748	\$179.00	\$160.95	\$142.95
Shortwave Passive Reel Antenna to Suit	AR-1947	\$19.95	\$17.95	\$15.70

World Band Radio with AM/FM, SW & DAB+

A feature rich world band radio that covers FM/AM/LW/SW frequencies as well as DAB+ digital radio. It utilises a PLL synthesized receiver for a high level of stability so it stays locked to the station you have chosen without interruption to the receiving signal. It's capable of picking up international radio stations on the SW band and supports the Radio Data Stream (RDS) function for receiving digital information. You can change the frequency with the sensitive tuning dial or key in the frequency directly with the 0-9 keypad. Tuning step can be adjusted between fast, slow and stop for fine adjustments. The easy to read LCD will display frequency, time, and RDS. It can store 480 stations in memory with 20 preset DAB+ stations. There's also a 3.5mm headphone output socket for private listening and RCA line out and in. Includes a telescopic antenna. Requires either 4 x 1.5V C size batteries or 9VDC plugpack.

- Clock/snooze/sleep/alarm function
- Key lock button
- World/local time selection
- Tuning selection (fast/slow/stop)
- Keypad direct entry (0-9)
- ATS Function
- Telescopic whip antenna
- 9/10k step & 12/24 hour selection
- Auto/manual tuning
- Dual alarm (alarm A & B) selection
- Stereo/mono
- Wide/narrow bandwidth selection
- DAB/DAB+/RDS function
- Electronic volume up/down
- 480 memory slots (DAB+ 20 presets)
- Built-in charging circuit
- Large LCD (time, frequency, RDS)
- Line in/line out
- 3.5mm headphone output



Note: Not all regions are capable of receiving DAB+.

Frequency coverage	AR-1946
FM	87.5-108MHz
AM	522-1620kHz (9k)
AM	530-1710kHz (10k)
LW	153 - 279MHz
SW	2.3-26.1MHz
DAB+	174.928 - 239.200MHz
Dimensions	294(W) x 175(L) x 76(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
World band Radio DAB+	AR-1946	\$229.00	\$205.95	\$182.95

World Band AM/FM/SW/AIR PLL Synthesised Receiver with SSB

Ideal for a novice ham radio licensor, keen fisherman or even just the outdoors type, this radio has everything you will ever need in a radio with the added function of single-sideband modulation (SSB). SSB is used to obtain current weather reports, so it is perfect to take to sea to avoid changing weather conditions. However with great FM and AM coverage and battery operation it is also perfect for camping, BBQs and thanks to its world/local time selection clock and alarm, it can even be used as an alarm clock! Additional features include auto tuning saving, 500 memories and keypad direct entry. This is certainly a radio of many uses! Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- RF gain control
- Bass & treble controls
- Key lock
- IF output
- Line in and out
- Earphone socket
- Speaker 5W/4 ohms
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated

HAS SSB!

Specifications	AR-1945
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
AIR/SW	118 - 137MHz / 1799-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm



SHORTWAVE PASSIVE REEL ANTENNA TO SUIT AR-1748 AND AR-1945

Designed for use with our shortwave radios (model AR-1748 and AR-1945) this reel antenna features two clips that attach to the telescopic rod antenna on the radio to boost reception. It's great for general reception improvement at home, when camping or on the road. When not in use just reel in the clips and it becomes a compact disc shaped package.

- Dimensions: 102(W) x 74(H) x 20(D)
- Max cable length: 7m



	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band Radio	AR-1945	\$219.00	\$196.95	\$174.95
Shortwave Passive Reel Antenna to Suit	AR-1947	\$19.95	\$17.95	\$15.70

SIGHT & SOUND TURNTABLES & ACCESSORIES

TURNTABLES

USB Turntable with Amp

Copy your LPs, 45s or even 78s straight to your PC, or simply listen to your record collection via the built-in amp and speakers. It also has auxiliary RCA outputs so you can run it to a separate amplifier. Finished in contemporary white piano finish with blue LED accents.

- USB cable and software included
- Contemporary look
- 320(W) x 265(D) x 85(H)mm
- Suits XP, Vista & MAC

USB & Analogue Audio Outputs



	Cat.	Qty 1+	Qty 3+	Qty 6+
USB Turntable	GE-4056	\$94.95	\$85.45	\$75.95
Spare Stylus - Pk 2	GE-4137	\$19.95	\$17.70	\$15.70

5 in 1 Multi-function Stereo with Direct Encoding

The unit is equipped with a full size turntable to play different size LPs in 3 speeds; a CD and cassette player, an AM/FM radio. It also comes with an SD/USB MP3 player and recorder. The recorder allows direct encoding to the USB or SD from the CD or turntable or even copy from USB to SD or vice versa! A truly powerful and versatile unit, crystal clear music is played through a pair of stereo speakers and has RCA line outputs for amplifier or Hi-Fi system integration.

- Belt drive system
- Built-in amplifier
- Amplified output power 2 x 2WRMS
- Stereo speakers - 5 watt @ 4Ω
- Programmable CD memories
- Repeat one/all function
- Bass boost function
- Dimensions: 370(L) x 300(D) x 170(H)mm



Accessories not included.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Music Centre	GE-4132	\$259.00	\$229.00	\$199.00
Spare Stylus - Pk 2	GE-4137	\$19.95	\$17.70	\$15.70

Proper Transcription-Type Turntable with Amplifier & AM/FM Tuner

When we thought vinyl was just a gimmick, it was ok to get a cheap turntable. But vinyl has proven to be far more substantial than that with mainstream music becoming available on vinyl again. Now is the time to get a serious turntable, and here it is. This unit is a proper transcription type turntable that has a belt drive, strobe-type speed check, pitch and anti-skating control, and s-shaped arm with high quality cartridge.

Not only that, it comes with a PLL AM/FM Tuner, stereo amp with line inputs, iPod® and MP3 inputs. The amplifier is not very powerful, but it has RCA line out so you can connect it to a bigger amp if you want to bypass the little speakers that come with it. In keeping with this style of product it has a "smoked Perspex" lid, a remote control and even a clock/alarm! 240V Mains powered. This unit represents outstanding value for money as Japanese transcription turntables (without any of the other stuff included above) cost \$400 plus in 1980 dollars 30+ years ago!



We expect to have difficulty keeping these in stock so be quick!

	Cat.	Qty 1+	Qty 4+	Qty 10+
	GE-4142	\$399.00	\$359.00	\$319.00

RELATED PRODUCTS

Carbon Fibre Record Brush

Carbon fibre brushes are the best way to remove surface grit before playing vinyl records.

- Millions of microscopic hairs get into every groove and when you're finished
- Built-in handle has a cleaning bar to get rid of the dust from the bristles
- Essential for every turntable owner.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4051	\$14.95	\$13.45	\$11.95

Video, Audio & CD Drive Belt

A selection of high quality drive belts for repairs and maintenance of a wide variety of video and audio equipment. The pack contains 25 of the most popular sizes in a combination of square and flat belts. There are 21 square belts ranging from 23mm to 120mm and 4 flat belts covering 56mm to 93mm. Belts lean more towards video use.

D	T	W	D	T	W	D	T	W	D	T	W
23	S	1.7	40	S	1.2	70	S	1.2	93	F	10.0
23	S	2.0	45	S	2.0	71	S	1.2	97	S	1.2
24	S	2.0	56	F	8.0	72	S	1.2	98	S	2.4
24	S	1.2	60	S	1.0	76	F	6.0	114	S	1.8
26	S	1.9	68	S	1.2	83	S	2.0	120	S	1.2
26	S	1.8	70	S	1.0	91	F	5.8	120	S	2.3
32	S	1.2									

D = Inside dia in mm, T = Type (Square or Flat), W = Width in mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	HP-0650	\$19.95	\$17.95	\$15.95

AUDIO SENDER/RECEIVERS

Battery Operated Audio Receiver with Bluetooth Technology

This portable and simple to use receiver allows you to play music from your iPad®, iPhone®, mobile phone, Tablet PC or any Bluetooth® device through your headphones or home audio system without the need for messy wiring. It is powered by AAA batteries (not included), has an on/off switch and an LED indicator for the pair status.

Specifications	AA-2089
Bluetooth® 2.1v + EDR	
Requires	3 x AAA batteries
Average use time	15 hours
Dimensions	71(L) x 46(B) x 21(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	AA-2089	\$19.95	\$17.95	\$15.70

NFC® Bluetooth® Audio Receiver with Music Control

A clever and convenient way to listen to your music or take calls on the go without having to be tethered to your phone or Tablet. It uses Bluetooth 4.0 and Apt-x coding technology for high quality stereo audio transmission, and NFC® (Near Field Communication) that makes it easy and fast to pair with your phone with one touch. It features a rechargeable battery, belt/pocket clip and 3.5mm stereo socket to connect your own earphones, or to the car radio (even the home Hi-Fi) using the supplied 3.5mm audio cable. The micro USB port allows you to charge the device (cable included) or to stream music to your computer.



- Multifunctional buttons for track and volume control, or to answer and end calls.

Specifications	AA-2087
Bluetooth® version	4.0
Charge time	2-3 hours
Standby time	Up to 200 hours
Use time	8 hours (average)
Transmission range	10m
Dimensions	34(L) x 34(W) x 12.5(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA-2087	\$44.95	\$40.45	\$35.90

Bluetooth® Audio Dongle with Transmit/Receiver

Enables your audio device to transmit or receive wireless stereo audio. If your mobile phone or MP3 player lacks Bluetooth® wireless technology, just plug your device into this transmitter/receiver with a standard 3.5mm audio lead and you'll have wireless audio capability. Alternatively, if your speaker or headphone lacks Bluetooth® functionality but your phone or MP3 player does this will also allow you to turn the speaker into a wireless Bluetooth® speaker.

Specifications	AA-2085
Charging time	2.5 hours
Wireless range	10m
Operating time	Transmitter: 10hrs, Receiver: 9hrs
Dimensions	45(L) x 33(W) x 7(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	AA-2085	\$64.95	\$58.45	\$51.95

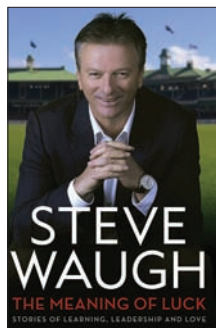
MOTIVATIONAL BOOK

"The Meaning Of Luck" - Book by Steve Waugh

Limited Stock

In The Meaning of Luck, former Australian cricket captain and 2004 Australian of the Year Steve Waugh explores the concept of luck, based on his experiences in the worlds of sport, business and charity. Steve begins by recalling the potentially devastating event that rocked his life in 2006, when his wife Lynette suffered a life-threatening brain bleed. Today, Lynette describes her illness as a stroke of luck, which she can do only because she fought so hard to regain her health and strength. She is lucky, but only because she chose to be. Lynette is the first of a number of characters in the book who have triumphed over adversity.

Also featured are cricketers, coaches, business and community leaders, and some of the brave children Steve has come into contact with through his philanthropy in India and Australia. There are tales from Ashes Tests, World Cups and the Olympic Games. The stories in "The Meaning of Luck" carry messages about leadership, maximising potential and having fun. Together, they provide a guide for people seeking to progress not just in sport, but in whatever direction they choose for their lives.



- Hard cover, 307 pages.

Sold by Jaycar to assist the Steve Waugh foundation. The price of this book is heavily discounted.



SPECIAL OFFER
Spend over \$25 and buy this Steve Waugh book for just \$5.

	Cat.	Qty 1+
	BC-1010	\$22.00

Audio Receiver with NFC & Bluetooth Technology

Stream music from your Bluetooth® or NFC® enabled Smartphone or Tablet directly to your stereo system or stand-alone speakers wirelessly. It is easy to setup and allows you to control the music from up to 10m away. Power can be supplied using the included 5V power supply or from a USB port on a stereo using 1.9m USB lead. A 1.8m male to male 3.5mm audio lead and a 3.5mm female to 2 x RCA lead are included to connect the receiver to the audio input of your speaker system.



- Bluetooth® 4.0v with SBC® support for high quality stereo audio
- Up to 10m transmission distance
- Can work with non-NFC® equipped devices
- A2DP Bluetooth® profile supported
- Audio stereo output
- Stores up to 8 device ID's

Specifications	AA-2108
Bluetooth® version	4.0
Power	5V (power supply included)
Dimensions	58(L) x 58(D) x 15(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA-2108	\$54.95	\$49.45	\$43.95

Wi-Fi Audio Receiver with TOSLINK & Stereo Output

Convert your home stereo system into a Wi-Fi audio system. This receiver connects your stereo system and your existing Wi-Fi home network and allows you to access any device connected to your home's Wi-Fi network and to stream audio. It features a digital (TOSLINK) and analogue (3.5mm stereo) output.

With its WPS feature, you can have an extended range of your Wi-Fi network. iOS® devices can use the existing AirPlay feature to stream to this receiver box with App required. For Android® devices you have to purchase and install an App. that supports DLNA Protocol. Windows® devices require Apps that you can download from Google® Play or similar sites.

* App/Software information listed in user manual

Package includes:

- Wireless music receiver
- Mains power adaptor
- USB cable
- RCA audio cable
- Quick start guide

- Streaming local or online music from iOS®, Android® Device to speaker
- Support DLNA, AirPlay, Qplay
- Aluminium Case
- Output: TOSLINK or 3.5mm stereo



Specifications	AA-2110
Wi-Fi	IEEE 802.11 b/g/n Standard
Wi-Fi Encryption	WPA, WPA2, WPA2 Mixed
Audio sample rates	up to 96kbps
Audio SNR	96dB
Audio Format	AAC, MP3, WAV
Streaming Protocol	DLNA, Airplay, Qplay
Audio Out	S/PDIF or Stereo
Dimensions	80(L) x 80(W) x 20(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Wi-Fi	AA-2110	\$79.95	\$71.95	\$63.95

WIRELESS AUDIO SENDER

Wireless Digital Audio Sender

This 2.4GHz digital audio sender uses a 34 channel frequency hopping transmission so you get seamless crystal clear audio.

It includes two power supplies, however, the receiver can also be powered by 2 AA batteries so you can use it on the go with headphones.



- Typical transmission range is about 30 metres
- Provided with two audio cables



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-2102	\$109.00	\$97.95	\$86.95

SIGHT & SOUND HEADPHONES

NOISE CANCELLING HEADPHONES

Active Noise Cancelling Headphones with Built-in USB Rechargeable Batteries

Suitable for frequent flyers and travellers, these active noise cancellation headphones will reduce your background noise by up to 16dB, allowing you to relax and enjoy high quality digital stereo sound from your in-flight entertainment or personal media player. They reduce cabin noise or your exposure to low-frequency sounds helping you to manage your fatigue while travelling. The ear cups rotate for compact size and easy storage inside your hand-carry bag or seat pocket. Supplied with built-in rechargeable batteries, which is charged through the USB cable provided.

- High quality digital stereo sound
- Active noise cancellation receiver
- Reduces noise by 16dB
- Built-in rechargeable battery
- Airplane adaptor / 3.5mm to 6.5mm adaptor
- USB charge cable / 3.5mm stereo audio cable

Specifications	AA-2088
Frequency response	15Hz - 25kHz
Distortion	0.1%
Sensitivity	96dB
Impedance	32ohm
Driver size	40mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2088	\$79.95	\$71.95	\$63.95

Noise Cancelling Headphones with Bluetooth® Technology

Affordable wireless headphones with Bluetooth® streaming and active noise cancelling function, perfect for those long noisy bus, train or plane trips. The headphones are light, compact, stylish and comfortable, and will match the features and performance of brand name equivalents available in the market at 4 times its price. They feature a built-in rechargeable battery that will provide continuous play back of up to 30 hours, ANC (Active noise cancelling) feature that can be turned on or off via a switch, and a 3.5mm auxiliary input for wired connection. Supplied with 3.5mm stereo audio cable, 6.5mm adaptor, USB charging cable, a double 3.5mm mono airplane adaptor, and case to store the headphones that fold down to minimise space when not in use.

Specifications	AA-2130
Bluetooth® version	4.1
Bluetooth® operating range	up to 10m
Noise cancelling rate	85%
Audio impedance	32 ohms
Charging time	3.0 hours
Battery life	
Only noise cancelling on	30 hours
Only Bluetooth® on	15 hours
Bluetooth® + noise cancelling on	12 hours
Connection	3.5mm jack
Speakers	40mm Mylar



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	AA-2130	\$139.00	\$124.95	\$110.95

WIRELESS HEADPHONES

Infrared Wireless Stereo Headphones

A great pair of good-looking dual-channel wireless headphones with a digital TOSLINK audio input to connect your digital devices. Setup is quick and easy and the sound clarity is excellent. The ultra-light design allows them to sit so comfortably on your head you'll hardly believe there is anything there. It also folds up for easy storage and transportation. With a range of about 15m and the ability to use one transmitter for multiple headphones, this unit is perfect for a variety of audio experiences. Wirelessly connects with any TV, VCR, VCD, DVD, Computer, MP3 player, audio system or even in your car and caravan. Additional headphones available separately (see AA-2039).

- Operation distance: up to 15m with latest infrared wireless technology
- Active noise reduction system for crystal clear sound
- Volume control and channel selection on headphones
- Several headphones can be used simultaneously with one transmitter
- RCA cable (included)

Specifications	Both
Carrier frequency (Infrared)	A channel: 2.3MHz, 2.8MHz, B channel: 3.2MHz, 3.8MHz
Signal-to-noise ratio	>55dB
Frequency response	30Hz to 20kHz
Weight	30g
Headphones require	2 x AAA batteries
Base	138(W) x 100(H) x 30(D)mm
Headphones	180(W) x 190(H) x 42(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
IR Wireless Headphones with TOSLINK	AA-2038	\$79.95	\$71.95	\$63.95
Spare Headphones to suit	AA-2039	\$34.95	\$31.45	\$27.90

Wireless Headphones with Bluetooth® Technology

These fantastic looking slim-profile headphones boasts superb sound quality with a crisp highs and deep bass. There's no need for wires - they are rechargeable and simply connect to your Smartphone, MP3 player or PC using Bluetooth® technology. It also has an auxiliary input, or insert a microSD card (not supplied) up to 32GB to play MP3 files directly. To top it off there's a built in microphone so you can take phone calls if you are connected to your Smartphone with user control buttons built into the outside of the earmuff.



A matte paint finish with moulded memory foam earmuffs, it will provide maximum comfort and stylish appearance to match. Foldable design for ultimate portability, it provide 20 hours of continuous play time, perfect for a full day of use.

- Bluetooth® Version: Bluetooth® 4.0
- 40mm dia. 32ohm drivers
- Speaker Frequency Response: 20Hz- 20kHz
- Up to 20 hours play time
- Bluetooth® Technology,

	Cat.	Qty 1+
Bluetooth®	AA-2122	\$59.95

Rechargeable with NFC® & Bluetooth® Technology

Give your ears a treat with amazing clarity and deep bass performance through these high performance portable stereo headphones. Completely wireless and connects to your sound source via Bluetooth® Technology or NFC®. There is also a built-in microphone with echo-cancellation if you want to take calls hands-free. Alternatively, you can use them by simply connecting to any music device by using a 3.5mm to 3.5mm audio cable, or inserting a microSD card (not supplied) up to 32GB to play music files directly.

Buttons on the ear pads allows you to turn on/off, play/pause music, to make, receive and reject phone calls, and redial the last number. Voice control and song selection can also be done with the same buttons. Fashionable design with comfortable over-ear leather pads to ensure that you look good while listening to your favourite tunes.

- Bluetooth® Technology version 4.0 and NFC®
- 40mm Dia. 32ohm drivers
- Frequency response: 20Hz-20kHz
- Playback Time: Up to 25 hours
- High quality for Line-in music
- Multi-function Options: Bluetooth®, AUX, microSD Card (up to 32GB)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	AA-2124	\$79.95	\$71.95	\$63.95

Digital Wireless Stereo Headphones with TOSLINK

Stylish wireless headphones with a digital TOSLINK audio input to connect your digital devices such as home theatre system, gaming consoles, CD and DVD players. Audio clarity and sound reproduction is superb. It has a built-in rechargeable battery to allow you freedom to move around. The headphone docks to the transmitter snugly and charges when not in use. Supplied with a mains power adaptor, 3.5mm stereo audio and RCA leads.

- TOSLINK / 3.5mm stereo inputs
- Built-in FM radio
- Low battery alarm

900MHz - AA-2083
2.4GHz - AA-2086



Accessories not included.

Specifications	Both
Frequency response	22 - 20kHz
Signal-to-noise ratio	50dB
R/L channel separation	30dB
Carrier frequency	900MHz (AA-2083) 2.4-2.48GHz (AA-2086) (WLAN hopping)
Modulation	Digital
Maximum transmission power	9.9dBm
Radio tuning band	FM 87.5MHz to 108MHz
Transmission range	100m (AA-2083) 70m (AA-2086)
Transmitter power	5VDC or 3 x 1.5V AAA batteries
Headphone power	Internal rechargeable 900mAh Li-Po Battery
Transmitter only	180(W) x 100(H) x 74(D)mm
Transmitter with headphones	180(W) x 220(H) x 74(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
900MHz	AA-2083	\$99.95	\$89.95	\$79.95
2.4GHz DIGITAL	AA-2086	\$119.00	\$106.95	\$94.95

HEADPHONES

Ultra Light Stereo Headphones

Quality headphones at a budget price.

- Terminates to a 3.5mm stereo plug with adaptor to 6.5mm supplied
- Spare set of muff pads included

Specifications	AA-2016
Driver diameter	27mm
Power handling	100mW
Nominal impedance	32 Ohms
Frequency response	100Hz - 20kHz
Sensitivity	188dB



	Cat.	Qty 1+	Qty 4+	Qty 10+
AA-2016		\$7.95	\$6.95	\$6.25

Lightweight Heavy Bass Stereo Headphones

Designed for extra bass performance.

- Fully adjustable headband & speakers for greater comfort
- Supplied with 3.5mm plug and 6.5mm adaptor

Specifications	AA-2007
Driver diameter	34mm
Power handling	100mW
Nominal impedance	32 Ohms
Frequency response	20Hz - 20kHz
Sensitivity	100dB



	Cat.	Qty 1+	Qty 4+	Qty 10+
AA-2007		\$14.95	\$13.35	\$11.70

High Quality Lightweight Stereo Headphones

Tipping the scales at a meagre 80 grams, these lightweight stereo headphones provide outstanding performance, clarity and comfort. Featuring high output drivers with neodymium magnets, they produce crystal clear sound with crisp highs and smooth bass response.

- Soft leatherette swivel ear pads, adjustable headset and 1.2m lead.

Specifications	AA-2061
Driver diameter	30mm
Power handling	50mW
Nominal impedance	32 Ohms
Frequency response	15Hz - 20kHz
Sensitivity	107dB

A Top Seller



	Cat.	Qty 1+	Qty 4+	Qty 10+
AA-2061		\$24.95	\$22.35	\$19.70

Gloss White Hi-Fidelity Stereo Headphones

Listen to your favourite music in high fidelity with these affordable and stylish stereo headphones. They can be connected directly to your Smartphone or to Hi-Fi systems like DVD, and CD players. The professional build quality and trendy white gloss finish make these ideal for professional recording engineers, musicians and music lovers.

Specifications	AA-2120
Frequency Response	10Hz - 20kHz
Max. Input Power	100mW
Plug Type	3.5mm stereo
Cable Length	1.2m cable
Driver Units	38mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
AA-2120		\$39.95	\$35.90	\$31.90

HEADSET WITH MICROPHONE

Rechargeable Bluetooth® Headset with Microphone

Lightweight headset with Bluetooth® wireless technology that can be connected with two Bluetooth® devices at the same time. Talk hands-free while driving, or connect to your Bluetooth® enabled PC or P3 for hands-free chatting on Skype, MSN and other chat programs. Features anti-noise technology for crystal clear conversation, multifunction button for voice command, last number redial, call rejection, and adjustable volume. The built-in Li-Po battery charges from a USB port (USB cable included). Compatible with all Bluetooth® mobile phones and Smartphones.



- Bluetooth® V2.1 with 10m range
- Supports 2 multipoint connections
- Mono
- Smartphone friendly
- 3 hour charge time, 13 hour usage time
- 220 hour standby time
- Built in rechargeable Li-Po Battery
- Weight: 42g



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	AA-2080	\$49.95	\$44.90	\$39.90

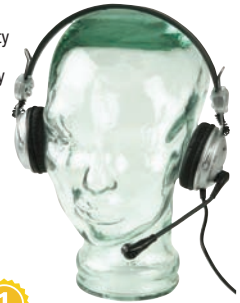
COMPUTER HEADPHONES

USB Stereo Headset with Microphone

A true plug and play headset! It simply plugs into your computer's USB port and delivers excellent sound quality across all music styles. The 38mm drivers ensure solid bass while maintaining a balanced response all the way up to 20kHz. The sensitive electret microphone is fitted to a flexible gooseneck and is fully adjustable.

- Perfect for gaming and VoIP communication
- USB 2.0 compliant

Headphones	AA-2032
Impedance	32 Ohm
Driver Diameter	38mm
Frequency Response	20Hz - 20kHz
Microphone	
Sensitivity	-65dB
Sensitivity Pattern	Cardioid



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wired	AA-2032	\$39.95	\$35.90	\$31.90

Gaming Headphones with Adjustable Microphone

A gaming headset designed for hardcore gamers who enjoy many hours of game-play and demand superior gaming audio, clarity, and bass.

BEST SELLER



They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120°.

The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch.



Headphone	AA-2126
Driver Diameter	40mm
Frequency Range	20Hz - 20kHz
Sensitivity	114dB ± 3dB
Impedance	32Ohm
Max. Input power	30mW
Microphone	
Mic. Diameter	6.0 x 5.0mm
Sensitivity	-38dB ± 3dB
Directivity	Omnidirectional
Plug type	2 x 3.5mm stereo
Cable length	2m



	Cat.	Qty 1+	Qty 4+	Qty 10+
AA-2126		\$49.95	\$44.90	\$39.90

RELATED PRODUCTS

Aeroplane Headphone Adaptor

Use your own headphones in an aeroplane. 3.5mm stereo socket to 2 x 3.5mm mono plug. Suits planes with 2 x 3.5mm sockets.



	Cat.	Qty 1+	Qty 4+	Qty 10+
PA-3581		\$4.95	\$4.45	\$4.00

3.5mm Stereo Plug to 3.5mm Stereo Socket Lead

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WA-7010	\$6.95	\$6.25	\$5.50
Curly 3.0m	WA-7012	\$8.50	\$7.50	\$6.75
Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	WA-7011	\$9.95	\$8.75	\$7.75

Curly Extension Lead 6.5mm Stereo Plug to Socket - 6m

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6.0m	WA-7046	\$10.95	\$9.85	\$8.75

SIGHT & SOUND EARPHONES

EARPHONES

Magnetic Earpiece

Magnetic 8 Ohm earpiece with 3.5mm plug connected. Suitable for radios, portable TVs, etc.

- Lightweight and easy to use

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3300	\$3.95	\$3.50	\$3.15

Crystal Earpiece

Crystal earpiece of high impedance with 3.5mm plug. Suitable for crystal sets or for experimental use.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3305	\$5.95	\$5.25	\$4.75

Stereo Inner Ear Earphones

Low cost inner ear phones that offer superb performance. Great replacement for your tired or damaged MP3 or iPod® players.

Specifications	AA-2090
Speaker Diameter	10mm
Frequency range	20Hz - 20kHz
Impedance	32 Ohms +/- 5%
Sensitivity	105dB +/- 5dB
Max power input	10mW

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2090	\$6.95	\$6.25	\$5.50

Stereo Inner Earphones with Built-in Mic

Quality stereo inner ear earphones with a built-in microphone. Enjoy hassle free music enjoyment without the inconvenience of having to remove your earphones when answering a call. Suitable for use with iPhone®s and other mobile devices where headphone mic is supported.

Specifications	AA-2096
Speaker Diameter	10mm
Frequency range	20Hz - 20kHz
Impedance	32 Ohms +/- 5%
Sensitivity	105dB +/- 5dB
Max power input	10mW
Mic	-58dB ± 3dB

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2096	\$9.95	\$8.75	\$7.75

Stereo Earphones with Microphone & Beryllium Coated Drivers

A set of high quality earphones that features pure Be4 Beryllium coated diaphragms, which reproduce high fidelity sound with a great dynamic range, deep punchy bass, clear vocals and crisp treble. There is also a microphone so you can take calls on-the-go when connected to your Smartphone. The interchangeable silicone ear-tips provide a convenient, comfortable fit. They also feature detachable ear hooks and classy aluminium metal housing to ensure quality and comfort. Comes with a dustproof zippered case, and 3 pairs of single flange ear-tips. Ideal for the audiophile who's on the go, but also suitable for voice chat, conference calls and gaming.

Specifications	AA-2091
Frequency response	10Hz to 24kHz
Impedance	16 ohms
Sensitivity	95dB +/- 3dB
Max. input sound level	106dB SPL
Driver size	10mm
Max. input power	10mW
Connector type	3.5mm 4-pole stereo/iPhone® compatible plug
Lead length	1.2m
Case Dimensions	80(Dia.) x 23(D)mm

	Cat.	Qty 1+
	AA-2091	\$29.95

Secure Clip On Earphones

These little beauties will stay put even when you are running or working out at the gym.

- 20 - 20kHz frequency response
- 96dB sensitivity
- 32 Ohms impedance
- 3.5mm stereo plug

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2023	\$14.95	\$13.35	\$11.70

WIRELESS EARPHONES

Rechargeable Bluetooth® Audio Receiver with Earphones

This rechargeable audio receiver with earphones uses Bluetooth® technology to connect to your Smartphone or Tablet wirelessly. Its in-ear design can easily isolate outside noise, and you can freely control the switches and selection options. Features a unique clip-on design that allows you to wear it the anywhere you want. Perfect for a person who is always on the move, gym, jogging, etc. Supplied with a USB charging cable.

- Stereo
- Fashionable clip-on design
- Hands-free function



NEW LOW PRICE



	Cat.	Qty 1+
Bluetooth®	AA-2093	\$34.95

EARPHONES ACCESSORIES & SPARES

Earphone Replacement Pads

Earphone Foam Replacement Pads, 6 black sponge pads, for replacing soiled ones on earphones.

NEW LOW PRICE



	Cat.	Qty 1+
Small - 17mm	AA-2013	\$1.95

PILLOW SPEAKERS

Pillow Speakers

A safe and convenient alternative to headphones or earphones whilst listening to music in bed. Simply plug in an MP3 player, iPod® or radio and place into a pillow case. Perfect for children and adults alike. 1m lead with 3.5mm stereo plug included. No batteries required.

- 1m removable cable with 3.5mm plug

Specifications	AS-3029
Impedance	16 ohm @ 1kHz
Rated power	0.1W
Maximum power	0.6W
Resonance frequency	500Hz ± 20%
Dimension	60mm Dia. Approx



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3029	\$9.95	\$8.75	\$7.75

HEARING AIDS

Infrared T-Coil Hearing Aid Transmitter & Receiver

An ingeniously designed infrared TV hearing aid system that utilises tele-coil (t-coil) technology for use with most common hearing aids. Unlike other big and clunky TV hearing aid designs, this system has a comfortable and lightweight neck loop that picks up the audio signal from the infrared transmitter. The signal is then retransmitted electromagnetically to the hearing aid device producing crystal clear audio sound. The infrared docking station has facility for two T-coil receiver neck loops. Simply dock the receiver and it will automatically charge the internal lithium battery which provides 8 hours of continuous use on a full charge. Features voice clarifying and noise cancelling technology, it also has automatic signal, balance & tone controls.

- Phone hearing aid function
- Chatting hearing aid function
- Wired listening hearing aid function for MP3, radio, PC etc
- Tone control
- Balance control
- Auto power off function for transmitter
- Battery life 8 hours



	Cat.	Qty 1+	Qty 4+	Qty 10+
Transmitter/Receiver	AA-2099	\$149.00	\$133.95	\$118.95
Spare TV Neckloop to Suit	AA-2103	\$79.95	\$71.95	\$63.95

OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references.
For application details see our Store Managers.

SECURITY

Access Control	434
Alarm System PIRs	430
Door & Gate Announcers & Beams	433
Home Alarms & Accessories	431
Intercoms / Video Doorphones	432
Testers & Detectors	435
Tracking Devices	436
Video Doorphones	424
Wired Alarm Systems	428
Wireless Alarm Systems	426

SURVEILLANCE

Cameras & Accessories	411
Covert Cameras	420
DIY Surveillance Packages	404
DVR & Camera Kits	403
DVRs - Professional	408
IP Cameras	414
Monitors	410
Time Lapse Cameras	418
Wireless Camera & DVR Kits	422

Background image sent to us by Lurik who shops at our Jaycar Erina store

"My workspace spans two floors, but this is my favourite bit. I seem to spend a lot of time working in my server room. In addition to our servers, there's a big DVR in there, about 6 big network switches, and over 100TB of RAID storage. I'm constantly tinkering with the setup to get more hard drives in."

DVR & CAMERA KITS

4 Channel NVR Kit with 2 x 720p IP Cameras

This easy to use network video recorder package ensures this model is the number one choice for installers and amateurs alike. The supplied two 720p HD IP digital cameras provide crisp and clear images enabling the recording of faces, clothing colours, license plates and more all in high definition. Each camera has infrared LEDs which automatically turn on in low light conditions and enable recording to continue in absolute darkness. Supplied with a 1TB HDD for recording up to 300hrs of continuous video. Backup a recorded incident easily and quickly to a USB flash drive.

With the incorporated plug-and-play technology this NVR kit is the easiest video security product to setup. View live footage on your Smartphone or Tablet in minutes. Unlike traditional digital video recorders (DVRs) there is no specialised IT technical expertise required during installation. No router setup required, no port forwarding to be done, a static IP address is not required from your internet service provider. All of this highly technical expertise is simply not needed to install this NVR kit, making it a breakthrough in technology, and one of the easiest to install Smartphone connect security recording product ever.

Specifications	Both
Video Compression format	H.264
Recording Resolution	1080p (1920 x 1080), 720p (1280 x 720). D1 (704 x 576)
Camera Input	IP x 4CH (RJ45) 720P/D1
Video Output	HDMI, VGA
Network Interface	NTP/DHCP/DDNS/CMS/Web2.0 Browser/P2P/WI-FI
Hard Disk Storage	1TB HDD
Back-up	USB and network remote Back-up



Cameras	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Camera Kit	QV-3130	\$699.00	\$629.00	\$559.00
4 Camera Kit	QV-3132	\$929.00	\$829.00	\$729.00
Spare Camera to suit	QC-3131	\$149.00	\$133.95	\$129.00

DVR KIT COMPARISON GUIDE

A range of TECHview DVR Camera Kits suitable for Home and Office applications. Each model has network access so camera vision can be viewed across a network or over the Internet using a web browser or Smartphone with a freely available app. Video is compressed using H.264 (also known as MPEG-4 AVC), which provides great picture quality at an efficient file size so you can get more video footage on your hard drive than both MPEG-2 and MPEG-4 compression. The kits are supplied in attractive display box packaging.



View live footage
on a Smartphone
Smartphone not included



Use our selection guide to help choose...

	Channels	Cameras Supplied	DVR Type	DVR Resolution	Camera TV Line	Hard Drive	Camera Type	Remote App	Page
QV-3138	4	4	DVR	D1	600TVL	500GB	CMOS	✓	404
QV-3140	4	4	DVR	960H	700TVL	500GB	CMOS	✓	405
QV-3130	4	2	NVR	720p	720p-IP	1TB	CMOS	✓	403
QV-3132	4	4	NVR	720p	720p-IP	1TB	CMOS	✓	403
QV-3142	4	4	DVR	AHD-720p	720p	1TB	CMOS	✓	406
QV-3144	8	4	DVR	960H	600TVL	1TB	CMOS	✓	405
QV-3145	8	8	DVR	960H	600TVL	1TB	CMOS	✓	405
QV-3146	8	4	DVR	AHD-720p	720p	1TB	CMOS	✓	406
QV-3148	16	4	DVR	AHD-720p	720p	1TB	CMOS	✓	407

ALL DVR'S FEATURE...



DVR & CAMERA KITS - ANALOGUE RANGE

Network 4 Channel DVR with 4 x 600TVL Cameras

An affordable 4 channel DVR suitable for day and night surveillance. Includes 500GB of storage for up to 300 hours of continuous video recording from the four 600TVL line weatherproof colour cameras with IR illumination. The four channel DVR supports full D1 resolution at 25 frames per second on each channel and can be controlled across the network or by using the included mouse or remote control. Recordings can be initiated manually, triggered by a timer or activated by movement in the camera's field of vision. Connect the DVR to a computer network and you can even view video remotely from anywhere in the world using a web browser or Smartphone/iPhone® (via installed app*).



DVR Specifications	QV-3138
Video compression	H.264
Video input	4 x BNC composite
Video output	HDMI, VGA, 2 x BNC Composite
Audio input	1 x RCA
Audio output	1 x RCA
Maximum recording resolution	704 x 576 (D1) at 25fps per channel
Maximum recording frame rate	100fps
Hard disk storage	500GB SATA
Back-up	USB & network remote back-up
Network interface	RJ45, 10/100Mbps
Power supply	12VDC 5A (included)
Dimensions	255(L) x 185(W) x 50(H)mm

Camera Specifications	
Sensor	1/3 CMOS
Horizontal resolution	600TV Lines
Lens type A (2 cameras)	3.6mm lens, 72° angle
Lens type B (2 cameras)	6.0mm lens, 45° angle
Voltage	12VDC from DVR power supply
Dimensions	85(L) x 45(D)mm



View live footage
on a Smartphone
Smartphone not included



FEATURES



	Cat.	Qty 1+	Qty 4+
4 Channel DVR & 4 Cameras	QV-3138	\$439.00	\$389.00

DVR & CAMERA KITS - ANALOGUE RANGE (CONTINUED)

Network 4 Channel DVR with 4 x 700TVL Cameras



View live footage
on a Smartphone
Smartphone not included

Suitable for home, office, and retail shops this kit includes a DVR, cameras, cables and power supply to give you all the necessary parts for a surveillance installation. Designed for locations which require superior video quality, the kit includes high grade cameras and a 4 channel DVR with additional features not found in economy DVR kits. The CMOS cameras output high quality 700TVL line video signals have 24 infrared LEDs to give longer range night vision and include IR cut filter to give improved colour reproduction under normal light. The DVR features include recording of 960H resolution from all 4 camera inputs, composite and VGA output for local viewing, and an Ethernet connection which can be configured for remote viewing. It is also capable of accepting alarm trigger signals from separate sensors or an existing alarm system and can record 4 audio channels. Supplied with 500GB of storage capable of recording up to 300 hours of continuous video, it also has USB support for backup to thumb drive or portable hard drive (not included).

DVR Specifications	QV-3140
Video compression format	H.264
Video input	4 channels composite
Video output	Composite video, VGA
Minimum recording resolution	352 x 288 (CIF)
Maximum recording resolution	960H, 704 x 576 (D1) at 25fps per channel
Maximum recording frame rate	100 fps
Hard disk storage	500GB SATA
Back-up	USB & network remote back-up
Network interface	RJ45, 10/100Mbps
Power supply	12VDC 2A (included)
Dimensions	300(W) x 220(D) x 50(H)mm

FEATURES



700TVL
Camera

960H

Recording
Resolution



500GB
Hard Drive



1
YEAR
Warranty

Camera Specifications	
Sensor	1/3 CMOS
Sensor resolution	(H x V pixels): 792 x 698
Horizontal resolution	700TVL
Minimum illumination	0.005Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens	2 cameras supplied with 3.6mm lenses & 2 cameras supplied with 6mm lenses
Lens angle	2 cameras with 72° & 2 cameras with 45°
IP rating	IP66
Power source	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)
Dimensions	135(L) x 85(H) x 68(W)mm

	Cat.	Qty 1+	Qty 4+
4 Channel DVR & 4 Cameras	QV-3140	\$549.00	\$489.00

Network 8 Channel DVR with 600TVL Cameras - H.264/960H



View live footage
on a Smartphone
Smartphone not included

These digital video recorders feature an embedded Linux operation System and H.264 compression. Recording resolution up to 960H will capture all the details. Supports Pelco PTZ control, and it can be viewed using a Smartphone or iOS® devices, and is supplied with remote PC Viewing Software. The P2P feature allows automated connection of network settings for remote viewing applications via a simple App download and QR code scanner. Back-up video event recordings to a thumb drive (not included), or remotely.

- Dropbox cloud storage
- Features motion detection and event notification via email
- Packages include power supply, remote control, USB mouse & software

Two models available:

DVR Specifications	Both
Video Compression	H.264
Operating System	Linux (embedded)
Video: Input/output	8 CH inputs (BNC) / 1 CH (BNC), VGA & HDMI outputs
Audio: Input/output	4 Channel inputs / 1 Channel output (RCA)
Display Resolution	960 X 576 / 25fps per CH = 100fps total
Record Resolution	960x576 (960H), 960x576(WD1), 960x288(WHD1), 720x576(D1), 480x288(WCIF), 360x288(CIF)
Record Speed	960H/D1/HD1/CIF:25fps/ch; WD1:10fps/ch, WHD1:20fps/ch, WCIF:25fps/ch
Notifications	Email
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	Built in RS485, support Pelco-P & Pelco-D

FEATURES



600TVL
Cameras

960H

Recording
Resolution



1TB
Hard Drive



1
YEAR
Warranty

Camera Specifications	
Image Sensor	1/3" colour CMOS
Effective Pixels	792 (H) x 698 (V)
Horizontal Resolution	600TVL
Electronic Shutter	1/50 - 1/100,000 Sec
Lens	3.6mm / 6.0mm
Min Illumination	0 Lux (F: 2.0) with IR on
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	24 IR LEDs
IR Range	15m
Power Requirement	12VDC

	Cat.	Qty 1+	Qty 4+
8 Channel DVR & 4 Cameras	QV-3144	\$619.00	\$549.00
8 Channel DVR & 8 Cameras	QV-3145	\$845.00	\$755.00

CAMERAS TO SUIT QV-3138, QV-3144 & QV-3145

600TVL CMOS Cameras with IR Illumination

Robust high resolution security cameras suitable for shopping centres, banks, schools, hotels, etc. Available in a weatherproof black anodised case or a neat indoor dome they feature a high quality colour CMOS sensor and IR LEDs for night time illumination. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.

Specifications	Both
Sensor	1/3" CMOS
Sensor resolution	(H x V pixels) 792 x 698
Horizontal resolution	600TVL
Minimum illumination	0.05Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens	6mm / F2.0
Lens angle	45°
Power requirement	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)

OUTDOOR CAMERA

- IP rating: IP66
 - Dimensions: 135(L) x 85(H) x 68(W)mm
- Cat. QC-8632

CMOS DOME CAMERA

- Dimensions: 110(Dia) x 85(H)mm
- Cat. QC-8633



QC-8633

QC-8632



FEATURES



	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
600TVL	Bullet	QC-8632	\$89.95	\$80.95	\$76.45
600TVL	Dome	QC-8633	\$89.95	\$80.95	\$76.45

SECURITY & SURVEILLANCE NETWORK DVR & CAMERA KITS

DVR & CAMERA KITS WITH AHD TECHNOLOGY - PREMIUM RANGE

Network 4 Channel AHD DVR Kit with 4 x 720p Cameras

**BEST
SELLER**



View live footage
on a Smartphone
Smartphone not included

This digital video recorder features the newly developed solution AHD (Analogue High Definition) for transmitting full HD digital video in a surveillance system. The core concept of AHD is to deliver high definition video using digital TV (DTV) transmission and can be transmitted easily over coaxial cables up to 500m. This package includes 4 x 720p high definition cameras with real time recording for crystal clear images. Coupled with P2P connectivity means that is simpler than ever to connect your DVR to your iOS® or Smartphone device than ever before. Simply download the app using the QR Code link in the manual. Connect your DVR to your broadband router. Scan the QR code on the DVR using the App, and you are connected. Now you can view your home or office cameras remotely. Record continuously on all 4 channels in 720p high definition, or select motion event recording to maximise storage performance.

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone

- Motion event recording can also be set to alert you via email or push notification.
- Dropbox cloud storage

KIT INCLUDES:

- Camera connection cables, power supplies, remote control & USB mouse.

DVR Specifications	QV-3142
Video Compression	H.264
Video - input / output	4 Channel inputs / VGA and HDMI outputs
Audio - input / output	4 Channel inputs / 1 Channel output (RCA)
Display / Record resolution	1280 x 720p or 960 X 576 @ 25fps
Sensor and alarm I/O	4 inputs / 1 output
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	RS-485
Dimensions	300(W) x 227(D) x 53(H)mm

Camera Specifications	QV-3142
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) - 720p @ 25fps
Lens	3.6mm/6.0mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC

FEATURES



720p
High Definition
Recording



1 YEAR
Warranty

	Cat.	Qty 1+	Qty 4+
4 Channel AHD DVR Kit	QV-3142	\$699.00	\$629.00

Network 8 Channel AHD DVR with 4 x 720p Cameras



View live footage
on a Smartphone
Smartphone not included

This 8 channel DVR features 4 x real time 720p high definition cameras. Compared with traditional analogue cameras AHD technology has significant improvement on imaging coupled with P2P connectivity means that is simpler than ever to connect your DVR to your iOS® or Smartphone device than ever before. Simply download the app using the QR Code link in the manual. Connect your DVR to your broadband Router (Required). Scan the QR code on the DVR using the App, and you are connected. Now you can view your home or office cameras remotely. Record continuously on all 8 channels in 720p high definition, or select motion event recording to maximise storage performance. Motion event recording can also be set to alert you via email or push notification.

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone

- Dropbox cloud storage

KIT INCLUDES:

- 1 x 8CH DVR, 4 x 720p cameras, connection cables, power supplies, remote control and USB mouse.

DVR Specifications	QV-3146
Video Compression	H.264
Operating System	Linux (embedded)
Video - input / output	8 Channel inputs / VGA and HDMI outputs
Audio - input / output	8 Channel inputs / 1 Channel output (RCA)
Display / Record resolution	1280 x 720p or 960 X 576 @ 25fps
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB back-up
Network interface	RJ45 10/100Mbps (DHCP, PPPoE & DDNS)
PTZ Control	RS-485
Dimensions	300(W) x 227(D) x 53(H)mm

Camera Specifications	QV-3146
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) - 720p @ 25fps
Lens	3.6mm / 6.0mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC

FEATURES



720p
High Definition
Recording



1 YEAR
Warranty

	Cat.	Qty 1+	Qty 4+
8 Channel AHD DVR Kit	QV-3146	\$879.00	\$789.00

DROPBOX CLOUD STORAGE

Most of our DVR range* now includes a Dropbox storage option. Setup or use your own personal Dropbox storage account to automatically save your footage, so you can retrieve footage in case your DVR is stolen or damaged. Dropbox offers 2GB of free storage or for users who require a larger amount of storage; a subscription service is available directly from Dropbox.

*excludes QV-8126/QV-8128 DVR



WHAT IS AHD?

AHD (Analogue High Definition) is a new HD solution, AHD technology can transmit video signal over traditional coaxial cable up to 500m. It adopts advanced Y/C signal separation and analogue signal filtering technology, which can effectively reduce colour noise & with better image reproduction. AHD cameras advantages:

- High resolution: Advanced signal filtering, 3D noise reduction, higher image resolution, better image reproduction.
- Long range transmission distance: max. 500m over traditional 75Ω coaxial cable
- No video latency: Uncompressed video, real time transmitting.
- Better compatibility: Compatible with D1/960H products.
- Easy to install: Support OSD menu, easy to operate and install.

DVR & CAMERA KITS WITH AHD TECHNOLOGY - PREMIUM RANGE (CONTINUED)

Network 16 Channel AHD DVR with 4 x 720p Cameras



View live footage
on a Smartphone
Smartphone not included

This 16 CH DVR incorporates AHD technology which can transmit 720p high definition video signal over traditional coaxial cable up to 500 metres; it adopts advanced Y/C signal separation and analogue signal filtering technology, which can effectively reduce colour noise, and with better image reproduction. Compared with traditional analogue cameras, AHD technology has significant improvement on imaging. Unlike IP Cameras AHD cameras transmit data that is not encoded resulting in no process and no delay real time and complete transmission.

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone

Coupled with P2P connectivity means that is simpler than ever to connect your DVR to your iOS® or Smartphone device than ever before. Simply download the app using the QR Code link in the manual. Connect your DVR to your broadband Router (Required). Scan the QR code on the DVR using the App, and you are connected. Now you can view your home or office cameras remotely. Record continuously on all 8 channels in 720p high definition, or select motion event recording to maximise storage performance. Motion event recording can also be set to alert you via email or push notification.

AHD cameras advantages:

- High resolution: Advanced signal filtering, 3D noise reduction, higher image resolution
- Long range transmission distance: max. 500 metres over traditional 75-3 coaxial cable
- No video latency: Uncompressed video, real time transmitting
- Better compatibility: Compatible with D1/960H products.
- Easy to install: Support OSD menu, easy to operate and install
- Dropbox cloud storage

KIT INCLUDES:

- 1 x DVR, 4 x 720p cameras, connection cables, remote control power supplies & USB mouse

DVR Specifications	QV-3148
Video Compression	H.264
Operating System	Linux (embedded)
Video - input / output	16 Channel inputs / VGA and HDMI outputs
Audio - input / output	16 Channel inputs / 1 Channel output (RCA)
Display / Record resolution	1280 x 720p or 960 X 576 / 25fps
Sensor and alarm I/O	4 inputs / 1 output
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	RS485
Dimensions	300(W) x 227(D) x 53(H)mm

Camera Specifications	QC-8637
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) - 720p @ 25fps
Electronic Shutter	1/25 - 1/10,000 Sec
Lens	3.6mm / 6.0mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC

FEATURES



720p
Camera

720p

High Definition
Recording



1TB
Hard Drive



1
YEAR
Warranty

	Cat.	Qty 1+	Qty 4+
16 Channel AHD DVR Kit	QV-3148	\$1,119.00	\$999.00

CAMERAS TO SUIT

720p AHD Outdoor Bullet Camera with IR

Capture your surroundings with this bullet high definition camera. Featuring the latest AHD (Analogue High Definition) technology, this camera deliver crystal clear images.

Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

Supplied with power supply and 18 metre coaxial cable fitted with BNC connectors.



Specifications	QC-8637
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) 720p
Electronic Shutter	1/25 - 1/10,000 Sec
Video Frame Rate	720p @ 25fps (PAL)
Lens	3.6mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p Bullet	QC-8637	\$149.00	\$133.95	\$129.00

720p AHD Dome Camera with IR

Capture your surroundings with this bullet dome high definition camera. Featuring the latest AHD (Analogue High Definition) technology, this camera deliver crystal clear images. Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

Supplied with power supply and 18 metre coaxial cable fitted with BNC connectors.



For use with our AHD DVR & Kits

Specifications	QC-8639
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) 720p
Electronic Shutter	1/25 - 1/10,000 Sec
Video Frame Rate	720p @ 25fps (PAL)
Lens	3.6mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	DC12V

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p Dome	QC-8639	\$149.00	\$133.95	\$129.00

TECH TALK!

HOW 720P & 1080P ARE SIMILAR & DIFFERENT

Contrary to what some may believe, 720p and 1080p are actually both high definition video display formats. In addition, the other characteristic 1080p and 720p share in common is that they are progressive display formats (that is where the 'p' comes from). However, this is where the similarity between 720p and 1080p ends.

720p

720p refers to a progressive HDTV signal with 720 horizontal lines and an Aspect Ratio (AR) of 16:9 (1.78:1). All major HDTV broadcasting standards include a 720p format which has a resolution of 1280x720, however there are other formats, including HDV and AVCHD for camcorders, which utilize 720p images with the standard HDTV resolution.

1080p

1080p refers to a progressive HDTV signal with 1080 horizontal lines and an Aspect Ratio of 16:9 (1.78:1). All major HDTV broadcasting standards include a 1080i format which has a resolution of 1920x1080, but the progressive HDTV broadcast standards in place right now only allow a resolution of 1280x720 (720p).

The main difference between 720p and 1080p lies in the number of pixels that make up a 720p image and 1080p image. For 720p the number of pixels that make up the image is about 1 million (equivalent to 1 megapixel in a digital still camera) and about 2 million pixels for 1080p. This means that a 1080p image has the potential to display a lot more detail than a 720p image.

Both these formats provide added clarity and detail for CCTV applications and with the introduction of HD capable DVRs these cameras producing video in these formats shows another advance in CCTV technology.

STAND ALONE DVR COMPARISON GUIDE

Shown below you will find a table which will help you to make a quick assessment of what model is best for your needs.

You are fortunate that, right at this moment we have made massive price reductions on this equipment. It may be that if the dollar goes down price rises may be unavoidable.



Use our selection guide to help choose...

	QV-3049	QV-3143	QV-3147	QV-8126	QV-3149	QV-8128
Video Input	4 Channel	4 Channel	8 Channel	8 Channel	16 Channel	16 Channel
Video Output	HDMI VGA BNC	HDMI VGA	HDMI VGA	HDMI VGA BNC	HDMI VGA	HDMI VGA BNC
Audio Input	4	4	8	1	16	1
Audio Output	1	1	1	1	4	1
Alarm Input	N/A	4	8	1	8	1
Alarm Output	N/A	1	1	1	1	1
USB Input	2	2	2	2	2	2
Max Resolution	704 x 576 (D1)	1280 x 720 (720p) AHD	1280 x 720 (720p) AHD	960 x 576 (960H)	1280 x 720 (720p) AHD	960 x 576 (960H)
Max Frame Rate	25fps @ D1	25fps @ 720p	25fps @ 720p	25fps @ 960H	25fps @ 720p	25fps @ 960H
Hard Disk	500GB	1TB	1TB	1TB	1TB	2TB
Dimensions (mm)	300 x 210 x 50	300 x 227 x 53	300 x 227 x 53	445 x 290 x 45	300 x 227 x 53	445 x 290 x 45
Page	408	408	409	409	409	409

Economy 4 Channel Digital Video Recorder



View live footage on a Smartphone
Smartphone not included

An affordable 4 channel DVR suitable for home or office surveillance. Includes 500GB of storage for up to 300 hours of continuous video recording from up to 4 cameras available separately. Supports full D1 resolution at 25 frames per second on each channel and can be controlled across the network or by using the included mouse or remote control. Recordings can be initiated manually, triggered by a timer or activated by movement in the camera's field of vision. Connect the DVR to a computer network and you can even view video remotely from anywhere in the world using a web browser or Smartphone/iPhone® (via installed app*).

* Free app for viewing live video available for download.

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone



DVR Specifications	QV-3049
Video compression	H.264
Video input	4 x BNC composite
Video output	HDMI, VGA, 2 x BNC Composite
Audio input/output	1 x RCA / 1 x RCA
Max. recording resolution	704 x 576 (D1) at 25fps per channel
Max. recording frame rate	100fps
Hard disk storage	500GB SATA
Back-up	USB & network remote back-up
Network interface	RJ45, 10/100Mbps
Power supply	12VDC 2A (included)
Dimensions	300(L) x 210(W) x 50(H)mm

FEATURES



Network 4 Channel AHD Digital Video Recorder



View live footage on a Smartphone
Smartphone not included

This 4 channel DVR features the latest AHD (Analogue High Definition) recording. Built on a robust Linux operating system, it features P2P connectivity that provides easy network configuration which makes iOS® or Smartphone remote viewing applications a breeze to connect. Recording on all 4 channels in 720P real time high definition, it incorporates a multiplexer to allow simultaneous recording and playback of stored video. Alarm inputs allows for contact triggered events such as a forced door or window or duress switch activation to initiate an event recording and email notification to be sent. Remote connection software supplied allows remote playback and setting of the DVR. Access passwords allow multi-user access to monitor to review footage.

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone



Specifications	QV-3143
Video Compression	H.264
Video - input / output	4 Channel inputs / VGA and HDMI outputs
Audio - input / output	4 Channel inputs / 1 Channel output (RCA)
Resolution	1280 x 720p or 960 X 576 / 25fps
Sensor and alarm I/O	4 inputs / 1 output
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	Built in RS485, support Pelco-P & Pelco-D IR
IR Extender	1 port
Dimensions	300(W) x 227(D) x 53(H)mm

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Channel Stand Alone DVR	QV-3049	\$289.00	\$259.00	\$239.00

	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Channel AHD Stand Alone DVR	QV-3143	\$439.00	\$389.00	\$369.00

STAND ALONE DVRs (CONTINUED)

8 & 16 Channel DVR with 960H Technology



QV-8126



View live footage
on a Smartphone
Smartphone not included

These professional 960H Digital Video Recorders offers wider, clearer DVD-quality videos for your business. Features a 1TB hard drive capacity for each disk and comes with USB, HDMI and VGA interface. Recorded events can be transferred to a USB flash drive for viewing later. This security system is internet-ready to provide an easier way to get connected. It allows you to link your security system to the internet, Smartphone or Tablet in a few easy steps, without any messy network configuration and without any additional changes. The system is easily customized for advanced monitoring and notification options. Available in two models QV-8126 and QV-8128 with 8 channel and 16 channel respectively.

FEATURES

960H

Recording Resolution



1TB Hard Drive



1 YEAR Warranty

Specifications	Both
Video input	H.264
Video compression	8 channel (QV-8126), 16 Channel (QV-8128)
Video input interface	BNC (1.0 Vp-p, 75 Ohms), PAL/NTSC self adaptive
Audio input	G.711u
Audio compression	1 channel, RCA (2.0 Vp-p, 1k Ohms)
Audio input	
Video output	
HDMI/VGA	1 channel, resolution: 1920 x 1080p/60Hz, 1280 x 1024/60Hz, 1280 x 720/60Hz, 1024 x 768/60Hz
CVBS	1 channel, BNC (1.0 Vp-p, 75 Ohms), resolution: PAL:704 x 576, NTSC: 704 x 480
Audio output	
RCA	1 channel, RCA (linear, 1 k Ohms)
Audio bit rate	64kbps
HDD Bay	
SATA	2 x SATA HDD (1 x 1TB HDD included) - QV-8128: 2TB (included)
Capacity	Up to 4TB capacity for each disk
Recording resolution	WD1/4CIF/2CIF/CIF/QCIF
Frame rate	25fps(PAL)/30fps (NTSC) per channel
External interface	LAN: 1, RJ45 10M/100M Ethernet interface
Power supply	12VDC
Dimensions	445(L) x 290(W) x 45(H)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	8 Channel 960H Stand Alone DVR QV-8126	\$799.00	\$719.00	\$679.00
	16 Channel 960H Stand Alone DVR QV-8128	\$999.00	\$899.00	\$849.00

Network 8 & 16 Channel AHD DVRs



View live footage
on a Smartphone
Smartphone not included

AHD stands for Analogue High Definition, which is a new HD analogue solution that supports video transmission over traditional coaxial cable up to 500 metres. Our exciting new range of 8 channels (QV-3147) and 16 channels (QV-3149) AHD DVRs support monitors with VGA or HDMI input, include a 1TB HDD, and features an advanced user interface with user friendly design and intuitive user controls. Each DVR can connect to a wired network so you can see what is going on from anywhere in the world via your iOS® or Android® Smartphone or Tablet. Package includes DVR, mains power adaptor and mouse.

FEATURES

720p

High Definition Recording



1TB Hard Drive



1 YEAR Warranty

- Dropbox cloud storage

Plug & Play (P2P). For an easier way to connect the DVR to your Smartphone

Specifications	Both
Video Compression	H.264
Operation System	Linux (embedded)
Storage	1TB HDD included, supports up to 4TB
Video input/output	8 CH inputs (QV-3147), 16 CH (QV-3149) / VGA and HDMI output
Audio input/output	8 CH inputs (QV-3147), 16 CH (QV-3149) / 1CH output (RCA)
Display resolution	PAL: 1280*720p or 960*576/ NTSC: 1280*720p or 960*480 feature single/Quad/S.E.Q.
Record resolution	PAL: 1280*720p or 960*576 / NTSC:1280*720p or 960*480 speed PAL:25fps(each ch) / NTSC: 30fps(each ch)
Recording Mode	Continuous/Manual/Motion detect
Playback Channel	1/4ch, or Via CMS, Mobile for 1ch playback, laptop for 1/4Ch playback
Local DVR	1-4ch
PC/MAC	1-4ch
Smartphones	1ch (using app)
Playback speed	PAL: 25fps(each ch) / NTSC: 30fps(each ch)
Sensor & Alarm I/O	4 inputs / 1 output
Network Type	LAN, DHCP, and DDNS
E-mail Notifications	Yes, Support
HDD interface	1 x SATA HDDs, up to 4TB
Multiplex Operation	Live display, record, playback, backup and network
USB	2 x USB (for mouse and backup/upgrade)
PTZ Control	Yes
VGA	800*600, 1024*768, 1280*1024, 1440*900, 1920*1080
HDMI	1080p
IR Extender Port	Yes
Dimensions	300(W) X 227(D) X 53(H)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	8 Channel AHD Stand Alone DVR QV-3147	\$589.00	\$529.00	\$499.00
	16 Channel AHD Stand Alone DVR QV-3149	\$839.00	\$749.00	\$709.00

TECH TALK!

IP OR NETWORK SURVEILLANCE

IP surveillance is a digitized and network version of closed circuit television (CCTV). In an IP surveillance system, an IP camera records video footage and the resulting content is distributed over an IP (Internet Protocol) network.

Digitization offers a number of benefits over traditional analogue CCTV including:

- Improved search capabilities & greater ease of use
- Better quality images and no degradation of content over time
- The ability to record and play at the same time
- The ability to compress content for improved storage

Adding networking capabilities to digital CCTV provides additional benefits, including:

- Improved ability for remote viewing & control. Anyone on the network with password access can potentially see video from any camera connected to the network.
- IP Storage makes it possible to store data in any geographical location
- Greater ease of distribution. An image of a crime suspect, for example, can immediately be distributed to officials.
- The ability to connect to email and other communications systems so that alerts can be sent automatically.

SECURITY & SURVEILLANCE NETWORK DVR ACCESSORIES

SURVEILLANCE MONITOR

17" LED Surveillance Monitor

High resolution slimline monitor suitable for surveillance applications. Ideal for use with our range of DVR camera kits. Its 4:3 aspect ratio that means the camera vision won't appear distorted or stretched, unlike 16:9 monitors. Includes HDMI, VGA, BNC, S-Video, 3.5mm audio and internal speaker.

For other monitors see page 491

Specifications	QM-3578
Panel Size	17.0
Resolution	1280x1024
Brightness (Max.)	250 cd/m ²
Contrast Ratio (Max.)	1000:1
Response Time	5ms
Outputs	3.5mm audio x 1, BNC x 1
Dimensions	386(W) x 372(H) x 62(D)mm



WHY SO EXPENSIVE?

We agree! EXCEPT that none of the big manufacturers want to make 4:3 aspect ratio (ie: "Surveillance") any more. You can buy 16:9 monitors cheaper, but they are useless for surveillance applications. Indeed, we're lucky to get 4:3 monitors at all!



	Cat.	Qty 1+
17" Surveillance Monitor	QM-3578	\$269.00

3.5" Purple 2TB Surveillance HDD 64M SATA3

The purple range of western digital drives are built for 24/7 always on surveillance. They are drop in replacements for desktop drives which aren't designed for the harsh always-on high-definition surveillance environment. This range has been specifically engineered for a high level of compatibility with DVR systems and are equipped with AllFrame technology which reduces frame loss, improves playback and increases number of drive bays supported.

With exclusive IntelliSeek™ technology, WD Purple drives calculate the optimum seek speeds which lowers power consumption, noise and vibration that can damage and cause drives to wear out more quickly. When you invest in a premium surveillance-class drive you worry less while enjoying the benefits over a longer period of time.

- Power requirements
- Read/write: 4.4W
 - Idle: 4.1W
 - Standby and sleep: 0.4W

Specifications	XC-5682
Form factor	3.5"
Buffer to host transfer speed	6Gbps
Host to/from drive (sustain)	145Gbps
Operating temperature	0-65°C
Idle acoustics	23dBa
Seek acoustics (average)	24dBa
Dimensions	147(L) x 101.6(W) x 26.1(H)mm, 640g



See page 339 for our 2.5" 1TB Notebook HDD



	Cat.	Qty 1+
	XC-5682	\$199.00

SECURITY CAMERA COMPARISON GUIDE

Use our selection guide to help choose...

	Resolution	Camera Type	Sensor Brand	Lens Type	Infrared	Page
QC-3694	420TVL	Mini	Sharp	3.6mm	✓	411
QC-8635	420TVL	Dome	Aptina	6.0mm	✓	411
QC-8632	600TVL	Bullet	Aptina	6.00mm	✓	405
QC-8633	600TVL	Dome	Aptina	6.00mm	✓	405
QC-8636	650TVL	Dome	Sony	6.00mm	✓	411
QC-8653	700TVL	Bullet	Aptina	3.6mm	✓	411
QC-8649	700TVL	Bullet	Aptina	6.00mm	✓	411
QC-8654	700TVL	Dome	Aptina	3.6mm	✓	411
QC-8642	800TVL	Bullet	Sony	9-22mm	✓	412
QC-8646	800TVL	Dome	Sony	2.8-12mm	✓	412
QC-8641	1000TVL	Dome	Aptina	3.6mm	-	412
QC-8643	1000TVL	Dome	Aptina	3.6mm	✓	412
QC-8656	1000TVL	Dome	Sony	3.6mm	✓	412
QC-8645	1000TVL	Bullet	Aptina	3.6mm	✓	412
QC-8658	1000TVL	Bullet	Sony	3.6mm	✓	412
QC-8637	720p AHD	Bullet	Sony	3.6mm	✓	407
QC-8647	720p AHD	Bullet	Sony	6.00mm	✓	413
QC-8639	720p AHD	Dome	Sony	3.6mm	✓	407
QC-8666	720p AHD	Dome	Sony	2.8-12mm	✓	413
QC-8668	720p AHD	Dome	Sony	2.8-12mm	✓	413
QC-8670	720p AHD	Bullet	Sony	3.6mm PTZ	✓	413

PROFESSIONAL DOME & OUTDOOR CAMERAS

420TVL Mini CCTV Camera

Quality Sharp colour CCD camera, ideal for use in retail stores, home security, remote monitoring or covert applications. Feature adjustable focus lens and composite video output which can feed into the AV inputs on any DVR or TV. Requires a 12VDC regulated power supply - use MP-3011

Specifications	QC-3694
Sensor	1/3" CCD
Sensor brand	Sharp
Resolution	420 TV Lines
Power required	12VDC
Current draw	320mA
Video output	1Vpp, 75 ohm
Min. Illumination	0Lux @ f1.2
Lens	3.6mm
Dimensions	55(H) x 42(W) x 15(D)mm



FEATURES			
CCD Sensor	420TVL Cameras	Easy Installation	1 YEAR Warranty

↑	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	420TVL Mini	QC-3694	\$69.95	\$62.95	\$59.45

420TVL CMOS Camera with IR Illumination

Versatile economical CMOS surveillance cameras with IR illumination, designed for quick and easy installation in domestic and small business surveillance systems.

Suitable for use on stand-alone monitors or as an additional camera for a DVR system. Supplied with power supply and combined video and power cable with standard BNC and 2.1mm DC connections.



Specifications	QC-8635
Resolution	420TVL lines
Operation	Day/night
Lens	6.0mm/45°
Power requirements	12VDC
Current draw	300mA
Cable Length	18m
Dimensions	100(Dia) x 70(H)mm

FEATURES			
CMOS Sensor	Infrared Night Vision	DIY Easy Installation	1 YEAR Warranty

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	420TVL Dome	QC-8635	\$64.95	\$58.50	\$54.95

600TVL CMOS Cameras with IR Illumination

Robust high resolution security cameras suitable for shopping centres, banks, schools, hotels, etc. Available in a weatherproof black anodised case or a neat indoor dome they feature a high quality colour CMOS sensor and IR LEDs for night time illumination. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.



Specifications	QC-8632 / QC-8633
Sensor	1/3" CMOS
Sensor resolution	(H x V pixels) 792 x 698
Horizontal resolution	600TVL
Minimum illumination	0.05Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens / Angle	6mm / F2.0 / 45°
IP66 Rated	QC-8632 - Yes / QC-8633 - No
Power requirement	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)
Dimensions - QC-8632	135(L) x 85(H) x 68(W)mm
Dimensions - QC-8633	110(Dia) x 85(H)mm

FEATURES			
CMOS Sensor	600TVL Cameras	Infrared Night Vision	1 YEAR Warranty

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	600TVL Bullet	QC-8632	\$89.95	\$80.95	\$76.45
	600TVL Dome	QC-8633	\$89.95	\$80.95	\$76.45

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!



650TVL High Grade CCD Camera with IR Illumination

Get superior quality surveillance footage with the convenience of a ready to go package by using these high grade CCD cameras. Features Sony® Ex-View HAD II CCD sensors and Effio(TM) DSP to provide superior video quality. With a built-in array of infrared LEDs this premium image sensor will also provide excellent low light vision ensuring high quality video is captured day or night.

- Supplied with power supply and 18m combined video and power lead
- BNC composite video output for easy integration into existing surveillance systems.



Specifications	QC-8636
Sensor	1/3" CCD
Sensor type	Sony Ex-View HAD II 960H
Sensor resolution	976 x 582 (H x V pixels)
Horizontal resolution	650TVL (Day) 700TVL (Night)
Minimum illumination	0.01Lux
IR illumination	26 LEDs
Effective IR range	Up to 12m
Lens	6mm
Lens angle	45°
Power source	12VDC
Current draw	90mA (IR OFF), 400mA (IR ON)
Dimensions	120(Dia) x 90(H)mm

FEATURES			
CCD Sensor	650TVL Cameras	Infrared Night Vision	1 YEAR Warranty

↑	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	650TVL Dome	QC-8636	\$129.00	\$115.95	\$109.95

700TVL CMOS Outdoor Camera with IR Illumination

A robust high resolution security camera suitable for shopping centres, schools, hotels etc. Housed in a waterproof black anodised case it features a high quality colour CMOS sensor, IR LEDs for night time illumination, and a protective sun-shade. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.



Specifications	Both
Sensor	1/3 CMOS
Sensor resolution	(H x V pixels) 792 x 698
Horizontal resolution	700TVL
Minimum illumination	0.005Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens	3.6mm (QC-8653), 6.0mm (QC-8649)
Lens angle	72°
IP rating	IP66
Power source	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)
Dimensions	135(L) x 85(H) x 68(W)mm

FEATURES			
CMOS Sensor	700TVL Camera	Infrared Night Vision	1 YEAR Warranty

*Note: Not stocked in all stores but can be ordered

↑	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	700TVL - 3.6mm Bullet	QC-8653	\$99.95	\$89.95	\$84.95
	700TVL - 6.0mm Bullet	QC-8649*	\$99.95	\$89.95	\$84.95

700TVL CMOS Dome Camera with IR Illumination

A robust high resolution security camera suitable for shopping centres, schools, hotels etc. Housed in a waterproof black anodised case it features a high quality colour CMOS sensor, IR LEDs for night time illumination, and a protective sun-shade. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.



Specifications	QC-8654
Sensor	1/3 CMOS
Sensor resolution	(H x V pixels) 792 x 698
Horizontal resolution	700TVL
Minimum illumination	0.005Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens	f6mm / F2.0
Lens angle	72°
IP rating	IP66
Power source	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)
Dimensions	135(L) x 85(H) x 68(W)mm

FEATURES			
CMOS Sensor	700TVL Camera	Infrared Night Vision	1 YEAR Warranty

↑	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	700TVL Dome	QC-8654	\$99.95	\$89.95	\$84.95

SECURITY & SURVEILLANCE BULLET & DOME CAMERAS

PROFESSIONAL DOME & OUTDOOR SURVEILLANCE CAMERAS (CONTINUED)

800TVL Vari-Focal Dome Camera

3-axis mechanism provides easy installation and enables you to put the camera's field of view exactly where you need it. Quality Sony® sensor and optics. It is a high resolution with 800TVL, and infrared LEDs for illumination in darkness. Features 20m infrared illumination and vari-focal autoiris lenses with ICR.

- With UTC (Up the Coax) OSC control

SONY
SENSOR INSIDE

NEW LOW
PRICE



Specifications	QC-8646
Sensor	1/3" CCD
Sensor brand	Sony® Super HAD II
Sensor resolution (H x V pixels)	976(D) x 582(W)
Resolution (horizontal TV lines)	800
Minimum illumination	0.01 lux (IR off) / 0 lux (IR on)
Lens	2.8-12mm with ICR & Auto iris
Power requirements	12VDC
Current draw	430mA
Dimensions	110(Dia) x 85(H)mm

FEATURES



Type	Cat.	Qty 1+
800TVL Dome - Vari-focal	QC-8646	\$169.00

800TVL Waterproof IP68 Vari-Focal Pro IR Camera

A quality camera with a number of unique features that make it ideal for long range outdoor surveillance. It's housed in a robust aluminium case that provides excellent cooling performance while maintaining the integrity of the IP68 rating. The Sony® Super HAD II sensor and the camera's 42 infrared LEDs enable the system to capture images up to 40 metres away in total darkness. The IR LEDs can be switched from low, medium or high illumination for different distances.

- Supplied with sun hood, mounting bracket and hardware
- Auto iris / Flickerless
- ICR
- 2 Stage Auto gain control
- Back light compensation

SONY
SENSOR INSIDE

NEW LOW
PRICE



Specifications	QC-8642
Sensor	1/3" CCD
Sensor brand	Sony® SuperHAD II
Sensor resolution	976 x 582 (HxV pixels)
Resolution (Hor TV lines)	800
Minimum illumination	0.01 lux (IR off), 0 lux (IR on)
Lens - Auto Iris	9.0-22.0mm/F2.0 with ICR
IR range	40m
With UTC (Up the Coax) OSD control	
Power requirements	12VDC
Current draw	840mA max
Dimensions (exc bracket)	180(L) x 106(W) x 110(H)mm

FEATURES



Type	Cat.	Qty 1+
800TVL Bullet	QC-8642	\$169.00

1,000TVL Dome Cameras

This camera features supreme resolution with 1,000 TV Lines with the QC-8643 also boasting a 20 metre visibility in total darkness

- 24 x IR LEDs (QC-8643 only).
- Supplied with mounting hardware.
- 12VDC power required - use MP-3486.

NEW LOW
PRICE



QC-8641



QC-8643

Specifications	QC-8641 / QC-8643
Image sensor	1/3" 1.2MP CMOS
Resolution	1000 TVLine
TV type	NTSC, PAL
Minimum illumination	0 Lux (LED on) - 20m range
S/N ratio	48dB or more (AGC off)
Gain control	Automatic gain control
Power supply	Regulated 12VDC ± 10%
Current consumption	max 200mA (LED on)
Lens	Fixed focal board lens
Dimensions	111(Dia) x 87(L)mm

FEATURES



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1,000TVL Dome	QC-8641	\$99.95	\$89.95	\$84.95
1,000TVL Dome with IR LEDs	QC-8643	\$119.00		

1000TVL CMOS Dome Camera with IR

A high resolution 1000TVL plastic dome camera. Will act as a potent visual deterrent and has the functionality to back it up. Uses an IMX225 Sony 1/3" CMOS sensor and is ringed by 24 IR LEDs for capturing footage in darkness.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

SONY
SENSOR INSIDE



NEW
2016

Specifications	QC-8656
Image Sensor	1/3 CMOS
Sensor Brand	Sony® IMX225
Resolution	1000TVL @ 25fps
Lens	3.6mm
IR LED's	20pcs
IP Rating	IP65
Power	12VDC, 1A (included)
Dimensions	94(Dia) x 74(D)mm

FEATURES



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Dome	QC-8656	\$129.00	\$115.95	\$109.95

1,000TVL Bullet Camera with IR

This 1,000TVL bullet style camera features a weather resistant alloy housing and includes an adjustable bracket that allows the camera to be wall or ceiling mounted.

- Power and video cables exit through the base, so they are completely concealed from prying cutters.



Specifications	QC-8645
Image Sensor	1.2 Megapixels, 1/3" CMOS
Resolution	1000TVL
S/N Ratio	<48dB (AGC off)
Lens	3.6mm
Min Illumination	0 Lux (LED on) - 20m range
IR Type	24 IR LEDs
Current Draw	250mA
Power Requirement	DC12V
Recommended Power Supply	MP-3011
IP Rating	IP66
Dimensions	158(D) x 59(W) x 59(H)mm

FEATURES



Type	Cat.	Qty 1+
1,000TVL Bullet	QC-8645	\$119.00

1000TVL CMOS Bullet Camera with IR

A high resolution 1000TVL bullet style waterproof camera. Will act as a potent visual deterrent and has the functionality to back it up. Uses an IMX225 Sony 1/3" CMOS sensor and is ringed by 24 IR LEDs for capturing footage in darkness.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors



NEW
2016

Specifications	QC-8658
Image Sensor	1/3 CMOS
Sensor Brand	Sony® IMX225
Resolution	1000TVL @ 25fps
Lens	3.6mm
IR LED's	24pcs
IP Rating	IP66
Power	12VDC, 1A
Dimensions	236(L) x 82(Dia)mm

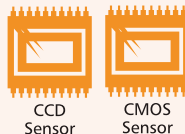
FEATURES



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	QC-8658	\$129.00	\$115.95	\$109.95

TECH TALK!

CCD VS. CMOS



CCD Sensor

CMOS Sensor

CCD Sensors have been used in cameras for more than 20 years, and provide greater light sensitivity which results in better image quality when compared to CMOS sensors. Whilst the number of TV lines of a CMOS and CCD camera might be similar, this does not necessarily mean that they will have a similar image quality.

In low light conditions the image difference between CMOS and CCD is particularly noticeable. CCD Sensors are more expensive, and more complex to integrate into a camera.

Recent advances have brought CMOS sensors closer in performance to CCD sensors however their lower light sensitivity remains their most noticeable limitation.

The SONY Ex View HAD II with Effio DSP solution has the best and clearest picture quality of any camera we currently sell. It most noticeably demonstrates the gulf in the light sensitivity and hence picture quality that exists between CCD and CMOS sensors.

PROFESSIONAL DOME & OUTDOOR SURVEILLANCE CAMERAS (CONTINUED)

720p AHD Outdoor Bullet Camera with IR

Capture your surroundings with this bullet high definition camera. Featuring the latest AHD (Analogue High Definition) technology, this camera delivers crystal clear images. Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

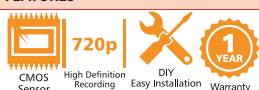
- Supplied with power supply and 18 metre coaxial cable fitted with BNC connectors.

Specifications	QC-8637
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) 720p
Electronic Shutter	1/25 - 1/10,000 Sec
Video Frame Rate	720p @ 25fps (PAL)
Lens	3.6mm (QC-8637), 6.0mm (QC-8647)
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC



SONY
SENSOR INSIDE

FEATURES



*Note: Not stocked in all stores but can be ordered

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p - 3.6mm Bullet	QC-8637	\$149.00	\$133.95	\$129.00
720p - 6.0mm Bullet	QC-8647*	\$149.00	\$133.95	\$129.00

720p AHD Dome Camera with IR

Capture your surroundings with this bullet high definition camera. Featuring the latest AHD (Analogue High Definition) technology, this camera delivers crystal clear images. Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

- Supplied with power supply and 18 metre coaxial cable fitted with BNC connectors.

Specifications	QC-8639
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V) 720p
Electronic Shutter	1/25 - 1/10,000 Sec
Video Frame Rate	720p @ 25fps (PAL)
Lens	3.6mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	DC12V



SONY
SENSOR INSIDE

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p Dome	QC-8639	\$149.00	\$133.95	\$129.00

720p AHD Vari-Focal Dome Camera with IR

This AHD camera is ideal for a wide range of surveillance applications. The AHD (analogue high definition) offers high resolution of up to 720p and features a vari-focal lens which allows you to adjust it from 2.8-12mm. It makes use of 1/3" Sony Sensor (IMX225) and will capture night vision thanks to the IR leds.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

Specifications	QC-8666
Image Sensor	1/3
Sensor Brand	Sony® IMX225
Resolution	720p (1280 x 720) @ 25fps
Lens	2.8-12mm
IR LED's	36pcs
IP Rating	IP65
Power	12VDC, 1A
Dimensions	145(Dia) x 89(D)mm



SONY
SENSOR INSIDE



	Cat.	Qty 1+	Qty 2+	Qty 4+
Dome	QC-8666	\$179.00	\$160.95	\$151.95

720p AHD Vari-Focal Bullet Camera with IR

This AHD camera is ideal for a wide range of surveillance applications. The AHD (analogue high definition) offers high resolution of up to 720p and features a vari-focal lens which allows you to adjust it from 2.8-12mm. It makes use of 1/3" Sony Sensor (IMX225) and will capture night vision thanks to the IR leds.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

Specifications	QC-8668
Image Sensor	1/3
Sensor Brand	Sony® IMX225
Resolution	720p (1280 x 720) @ 25fps
Lens	2.8-12mm
IR LED's	42pcs
IP Rating	IP66
Power	12VDC, 1A
Dimensions	207(L) x 148(H)mm (Including Bracket)



SONY
SENSOR INSIDE



	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	QC-8668	\$179.00	\$160.95	\$151.95

720p AHD PTZ Bullet Camera with IR

This PTZ bullet camera has utilises a 1/3 Sony® 238 CMOS sensor delivers 720p AHD high quality resolution video. Allows you to control the PTZ camera using the associated smartphone app using our AHD DVR's in order to pan/tilt and zoom. It incorporates a 250 degree panning angle, 60° tilt range and 4 x optical zoom function. Other functions include OSD control and RS-485 communication protocol for PTZ which can connect straight to the AHD DVR PTZ inputs.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

Specifications	QC-8670
Image Sensor	1/3" Sony® 238
Resolution	720p (1280 x 720) @ 25fps
Lens	4-12mm
IR LED's	4pcs
IP Rating	IP66
IR Distance	30-50m
PTZ	RS-485
Pan Angle	0-250°
Tilt Angle	-5-60°
Power	12VDC, 1.5A
Dimensions	153(L) x 130(H) x 93(W)mm (Including Bracket)



SONY
SENSOR INSIDE



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-8670	\$249.00	\$225.00	\$215.00

TECH TALK!

PTZ CAMERAS AND CONTROLLERS

Most standard CCTV cameras in our catalogue have a fixed lens so the picture you see on the monitor will always be focussed on the same position. A PTZ (Pan Tilt Zoom) camera allows you to control the camera to pan, tilt or zoom to an object in the field of view. Traditionally, PTZ cameras required a PTZ controller in-line with the DVR and camera in order to control the camera. With our range of AHD (Analogue High Definition) DVRs (QV-3142, QV-3143, QV-3146, QV-3147, QV-3148 & QV-3149) there is no need to purchase an external PTZ controller as it is complete with RS-485 inputs and connect directly from the PTZ camera to the DVR. Remotely using either the DVR controls or via the free Smartphone app to pan, tilt or zoom.

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar



Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

SECURITY & SURVEILLANCE OUTDOOR & SPECIALTY CAMERAS

PROFESSIONAL HIGH DEF CAMERAS (CONTINUED)

720p IP Outdoor Camera with IR

Sleek 720p HD IP Camera with 1.3MP CMOS Sensor and 3.6mm lens to suit QV-3130 & QV-3132 NVR. Also works as a standalone camera.

- 1.3 Megapixel CMOS Sensor
- 3.5mm Lens
- 24 Led light, 20m Infrared Lamp Range
- H.264 Compression Format
- Support P2P, Video Push

Specifications	QC-3131
Effective Pixels	1280 x 720
Illumination Color	0.5 LUX(IR ON)
Lens	3.6 mm
Day/Night IR distance	20 metre
S/N Ratio	>50 dB
Dimensions	290(L) x 80(W) x 80(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	QC-3131	\$149.00	\$133.95	\$129.00

FIND OUT MORE IN STORE

**Our staff offer friendly and helpful service.
We're here to help.**

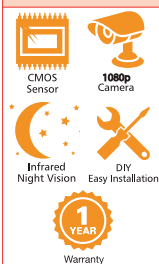
1080p IP Camera with PoE

This 1080p Infrared Bullet IP camera can be powered via Power over Ethernet (PoE) connecting to a PoE switch or PoE supported NVR. Depending on your application; it can also be connected using a 12VDC power supply (not included). It features 1080p high resolution recording and can be mounted in any indoor or outdoor situation. This IP camera is ideal for work or home applications and can be connected via the software provided or your Smartphone.

- Supports iOS® & Android Smartphones
- Powered by 12VDC power supply or Power over Ethernet (PoE)
- Plug & Play (P2P) Technology, Easy Network Setup

Specifications	QC-3122
Image Sensor	1/3" CMOS, 2.0MP
Resolution	1080p (1920 x 1080), D1 (720 x 576), CIF (352 x 288)
Frame Rate	1080p @ 25fps (Single Channel), D1 @ 25fps (Multi Channel), CIF @ 20fps (Mobile)
Min Illumination	0.03 Lux @ F1.2
Video Format	AVI (H.264)
Lens	3.6mm Fixed Focal
Infrared	30 x IR LED's
Network Interface	1 x RJ-45 10/100Mbps
IP Rating	IP66
Power	12VDC, 1A / Power over Ethernet (PoE)
Dimensions	150(L) x 63(Dia)mm

FEATURES



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1,080p	Bullet	QC-3122	\$249.00	\$225.00	\$215.00

SPECIAL APPLICATION CAMERAS

600TVL Hidden Camera Mirror

Designed for use where concealed high security is the main requirement such as retail stores, offices, museums, art galleries etc. To most people it looks like a simple convex security mirror but embedded behind the patented reflective layer is a 600TVL security camera.

- Features built-in colour digital noise reduction
- 3.6mm lens with standard BNC for connection to your DVR
- Ideal size for easy wall mounting.



FEATURES



Specifications	QC-8631
Image Sensor	1/3" colour Ex-view CCD
TV System	PAL/NTSC
Resolution	600TVL
Power Requirement	12VDC (use MP-3011)
Current draw	500mA
Dimensions	350(Dia) x 200(H)mm

	Type	Cat.	Qty 1+
600TVL	Mirror	QC-8631	\$79.95

800TVL Hidden Camera - PIR Appearance

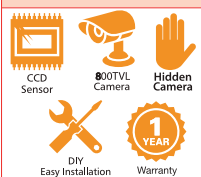
High quality camera disguised inside a housing that appears to look like a PIR. The power and video cables exit through the rear of the unit so are relatively concealed from prying eyes.

- Housing is compact and will fit unobtrusively in the corner of any room
- Equipped with a high resolution 800TVL Sony® sensor for superior image capture.



Specifications	QC-8652
Sensor	Sony® 1/3" CCD
Sensor brand	Sony® SuperHAD II
Sensor resolution (H x V pixels)	976 x 582
Resolution (horizontal TV lines)	800
Minimum illumination (lux)	0.01 (IR off) / 0 (IR on)
Lens	3.7mm
With UTC (Up the Coax) OSD control	
Power supply	12VDC
Current draw	200mA
Dimensions	47(L) x 47(W) x 120(H)mm

FEATURES



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
800TVL	PIR	QC-8652	\$129.00	\$115.95	\$109.95

800TVL Hidden Camera - Smoke Detector Appearance

High quality camera disguised inside a housing that appears to look like a smoke detector. The power and video cables exit through the base of the unit so are completely concealed from prying eyes and cutters.

- Housing is compact so will fit unobtrusively on the ceiling
- Equipped with a high resolution 800TVL Sony® sensor for superior image capture.

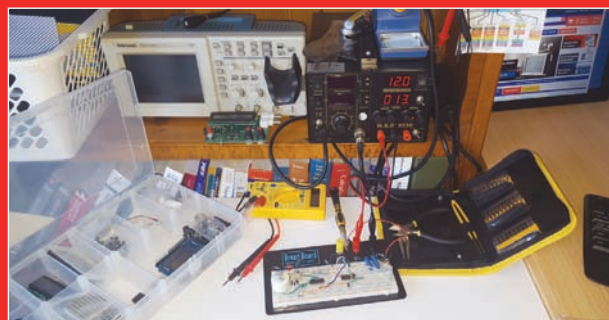


Specifications	QC-8650
Sensor	Sony® 1/3" CCD
Sensor brand	Sony® SuperHAD II
Sensor resolution (H x V pixels)	976 x 582
Resolution (horizontal TV lines)	800
Minimum illumination (lux)	0.01 (IR off) / 0 (IR on)
Lens	3.7mm
With UTC (Up the Coax) OSD control	
Power supply	12VDC
Current draw	200mA
Dimensions	110(Dia) x 60(H)mm

FEATURES



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
800TVL	Dome	QC-8650	\$129.00	\$115.95	\$109.95



Workbench sent to us by: Rodney Jaycar Store: Aspley

As an engineering undergraduate, this is my workbench I've set up in my home office to build assignments and practically test the theoretical concepts I'm learning along the way. My local Jaycar has been an invaluable one-stop-shop for all the bits and pieces I need for the projects!

For more details, visit:
www.jaycar.com.au/workbench

CCTV LEADS & ACCESSORIES

DC Power Leads - 2.1mm Plugs to Socket

Run multiple devices from a single power supply or extend the low voltage cable between a plugpack and a device. Ideal for surveillance applications and available in a range of versions to suit many applications. All cables are pre-made with moulded DC plugs and sockets.

- Three types available.
- DC Plug / Socket Dimensions:
2.1(ID) x 5.5(OD) x 10(L)mm



Length	Cat.	Qty 1+	Qty 2+	Qty 4+
1 Socket to 2 plugs - 200mm	WQ-7280	\$7.95	\$6.95	\$6.75
1 Socket to 2 plugs - 2 metres	WQ-7284	\$8.95	\$7.95	\$7.50
1 Socket to 4 plugs - 2 metres	WQ-7281	\$9.95	\$8.75	\$8.25

CCTV Video & Power Cable

- BNC terminated
- Male DC plug on one end, female DC socket at the other.
- 18m length



Length	Cat.	Qty 1+	Qty 2+	Qty 4+
18m	WQ-7279	\$19.95	\$17.70	\$16.70

CCD Camera Power Extension Lead

Extend the plugpack lead for CCD cameras.

- Consists of 2.1mm male to female.
- Plug OD 5.5mm.



Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5 metre	WQ-7285	\$9.95	\$8.75	\$8.25

CCD Camera Extension Leads

The easy way to extend the length of CCD camera cables. The leads have 3 joined cables, BNC plug to plug, RCA plug to plug, and DC power male to female. The video cable used is quality RG59U, and the power cable for the shorter lengths is 24 gauge, and the 2 longer lengths are 18 gauge.



Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5 metre	WQ-7275	\$19.95	\$17.95	\$16.95
10 metre	WQ-7276	\$34.95	\$31.45	\$29.70
15 metre	WQ-7277	\$44.95	\$40.45	\$38.20
20 metre	WQ-7278	\$59.95	\$53.95	\$50.95

2.1mm DC Connectors

PA-3711



PA-3713



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	PA-3711	\$4.95	\$4.45	\$4.00
Socket - Screw Terminals	PA-3713	\$4.95	\$4.45	\$4.00

BNC with Terminals



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA-3715	\$4.95	\$4.45	\$4.00

BNC Adaptors



PA-3665



PA-3663

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
BNC Plug to BNC Plug Adaptor	PA-3665	\$4.95	\$4.45	\$3.90
BNC Plug to BNC Socket R/A	PA-3663	\$4.95	\$4.45	\$3.90

BNC Plug to BNC Plug

RG-59U coaxial cable



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7300	\$9.95	\$8.75	\$7.75

CAMERA POWER SUPPLY

CCD Camera Power Supplies

12VDC regulated plugpack ideal for CCD cameras.

- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive



	Cat.	Qty 1+	Qty 5+	Qty 10+
12VDC 500mA	MP-3011	\$19.95	\$17.95	\$15.95
12VDC 1.5A	MP-3486	\$24.95	\$22.35	\$19.70

AC/DC - DC Converter 24 - 12VDC 1A

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it.

- Connection is by screw terminals

Specifications	MP-3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC / 24VDC 1A	MP-3350	\$39.95	\$35.95	\$31.95

BALUNS

BNC to Cat5e/6 UTP AHD Video Balun Kit

Extend the transmission distance of your CCTV cabling without the need for a video amplifier and without blowing your budget. To use the baluns, strip away your UTP CAT 5 cable at the ends and use a stranded pair connecting one wire to the positive terminal and the other to the negative terminal. Note the colour of the wires used and repeat the process at the other end. Potentially, you can connect up to four cameras using one UTP CAT 5 cable. It is also suitable for multimedia presentation, video conferencing and remote monitor setups. The balun accepts all composite video signals. Transmission distance is up to 300m for colour video signals. They are passive and require no power. This kit includes two baluns one to act as the transmitter and the other the receiver. It is suitable for video only. It has built-in protection against interference and transients.

- Uses UTP Cat5 Cable
- Male BNC adaptors allow direct connection to camera from baluns
- No power required - passive transceiver



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3667	\$14.95	\$13.45	\$12.70

BNC/RCA/Power to Cat5e/6 AHD Video Balun Kit

Simplify your CCTV installation by combining composite video, audio and power for transmission over one UTP CAT5 cable. Supplied with one transmitter and one receiver, this kit will transmit video signals up to 200m in length. These baluns are also suitable for multimedia presentation, video conferencing and remote monitor setups.

- RJ-45 socket for UTP CAT5 cable
- Male BNC connector for video
- Male RCA cable for audio
- 2.5mm DC Power connection



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3669	\$29.95	\$26.95	\$25.45



Workbench sent to us by: Peter Jaycar Store: Osborne Park

After scuffing up Mum's dining table my boys and I carved out a nook in the garage where we could tinker to our hearts content.

For more details, visit:
www.jaycar.com.au/workbench

CAMERA ACCESSORIES

Long Range Infrared Spotlight

CMOS and CCD surveillance cameras are often designed with only minimal night vision range or sometimes without infrared LEDs at all. This high-power spotlight will add or increase your existing surveillance cameras infrared viewing range of up to 50 metres. The six built-in LEDs switch on automatically at night or when dark conditions are detected. The compact size of the spotlight is ideal where unobtrusive surveillance in low light areas is preferred, such as warehouses, driveways, backyards, alleyways and boundary line fences. Includes a 12VDC power supply and mounting hardware.

- Automatic day/night operation
- Weatherproof
- 180° Bracket Adjustment

Specifications	QC-3654
Infrared LEDs	6 x 3W
Infrared Angle	60°
Effective Infrared Range	up to 50m
IP Rating	IP65
Power Supply	12VDC, 1.5A
Dimensions	165(L) x 84(Dia)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3654	\$84.95	\$76.45	\$71.95

Microphone/Amp for CCTV Cameras

Easy add-on mini microphone with built-in amp for cameras that require an audio function. Simple to install and ideal for all surveillance applications.

- High sensitivity microphone (-65dB)
- 12VDC operation



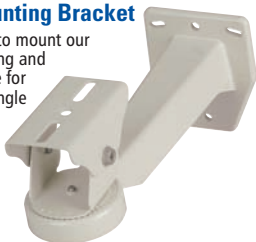
	Cat.	Qty 1+	Qty 2+	Qty 4+
Length 500mm	QC-3434	\$24.95	\$22.45	\$21.20

CAMERA MOUNTS

External CCD Camera Housing Mounting Bracket

This heavy-duty aluminium bracket is designed to mount our large indoor/outdoor professional camera housing and professional range of CCD cameras. It is suitable for either internal or external use and the camera angle is fully adjustable.

- Mounting screws and wall plugs included
- Maximum payload 8kg
- Supplied in silver finish
- Bracket height is 290mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3337	\$19.95	\$17.95	\$16.95

RELATED PRODUCTS

WARNING SIGNS & STICKERS

Surveillance Warning Stickers

Make sure people entering your premises know that they will be under video surveillance with this unambiguous message.

INSIDE SURVEILLANCE WARNING STICKER

- UV stabilised for long life
- Black printing on a clear background
- Sticks to inside of window
- Dimensions: 80(W) x 40(H)mm



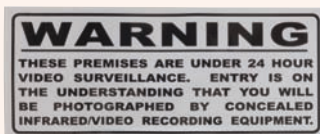
OUTSIDE SURVEILLANCE WARNING STICKER

- Silver colour
- Sticks to outside of window
- Dimensions: 80(W) x 40(H)mm



LARGE OUTSIDE SURVEILLANCE WARNING STICKER

- Black lettering on white background
- Sticks to outside of window
- Dimensions: 120(W) x 50(H)mm



	Type	Size	Cat.	Qty 1+	Qty 2+	Qty 4+
	Small Inside	80 x 40mm	LA-5106	\$2.95	\$2.60	\$2.30
	Small Outside	80 x 40mm	LA-5107	\$2.95	\$2.60	\$2.30
	Large Outside	120 x 50mm	LA-5108	\$3.95	\$3.45	\$3.15

DOME CAMERA HOUSING

Mini Size Dome Camera Housing

This dome camera housing looks exactly like the real thing, at a fraction of the price. Make your business/home/office look like its under surveillance. Even includes the metal camera case inside though with no lens.

- Dimensions: 88(dia) x 68(H) mm approx



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Dome	LA-5317	\$9.95	\$8.75	\$8.25

Heavy Duty Armour Dome Case

Designed to mount a standard board camera (up to 42mm squared). It's constructed with a strong die-cast aluminium base, and a reinforced polycarbonate dome. The dome can support more than 500kg of pressure before cracking, and can withstand a blow from a 4.5kg sledgehammer.

- Tamper proof Torx bits are used in the cover
- Large threaded side cable entry is used for security



Specifications	QC-3328
Maximum Dome Load	500kg.
Maximum Camera Size	42mm x 42mm board camera
Dimensions	84(H) x 142(dia)mm
Weight	450g



	Type	Cat.	Qty 1+
	Dome	QC-3328	\$19.95

RF BUG & CAMERA DETECTORS

Camera Detector

Protect your privacy! Covert cameras and listening device are nearly impossible to spot by the naked eye. This handy little unit will detect hidden wired and wireless cameras through the units lens finder. The 6 pulsing LEDs reveals the location of a camera by illuminating it's lens when you look through the lens viewer. Also features a built-in wireless RF detector that provides audible (buzzer) and visual (LED) signal strength indication. Great for detecting wireless transmitters and eavesdropping devices. It even comes with a set of earphones for complete discrete bug detection. Requires 2 x AAA batteries (use our SB-2426).

Specifications	QC-3506
Laser detection range	0.1 - 10m
RF detection range	0 - 10m
RF frequency range	1.0MHz - 6.5GHz
Dimensions	85(H) x 56(W) x 18(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
	QC-3506	\$99.95	\$89.95	\$79.95

CCTV Sticker - Large Size

Visible deterrent to intruders. Bright yellow to attract attention. Partner with a dummy camera or two for a complete faux security system or just to warn that the real thing is installed.



	Cat.	Qty 1+	Qty 4+	Qty 8+
110(W) x 110(H)mm	LA-5101	\$4.95	\$4.45	\$3.95

Surveillance Warning Sign 300 x 300mm

Visual deterrents are one of the most effective security measures you can use. This sign will ward off thieves and let them know you have state-of-the-art surveillance on your property - even if you don't. It's made of acrylic, so it's lightweight and durable.



	Cat.	Qty 1+	Qty 2+	Qty 4+
300(W) x 300(H)mm	LA-5115	\$14.95	\$13.35	\$12.70

CCTV Warning Sign

Prominent warning sign for CCTV or dummy surveillance applications. Made from acrylic for durability.



	Cat.	Qty 1+	Qty 4+	Qty 8+
300(W) x 210(H)mm	LA-5114	\$14.95	\$13.35	\$11.70

DUMMY CAMERAS

Dummy Dome Camera with Flashing LED & CCTV Sticker

A simple and effective visual deterrent. This fake but realistic-looking dome camera features a high brightness flashing red 3mm LED, and is supplied with a yellow CCTV warning sticker. Great for home, office, schools or any location to discourage thieves.

- Requires 2 x AA batteries
- Includes mounting hardware
- Sticker dimensions: 110 x 110mm
- Camera dimensions: 127(Dia) x 90(H)mm



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Dome	LA-5332	\$14.95	\$13.35	\$12.70

Dummy Dome Camera Kit with Flashing Sign

A simple and effective visual deterrent, this fake security kit comes with a realistic-looking dummy dome camera and a flashing solar-powered 80 x 80mm LCD warning sign. Great for home, office, schools or any location to discourage thieves.

- Requires: 3 x AA batteries
- Dimensions: 120(Dia) x 70(H)mm



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Dome	LA-5324	\$24.95	\$22.35	\$20.95

Dummy IR Camera

Visible deterrence is probably the most important aspect of security. Most criminals aren't completely stupid - if your premises looks like it has CCTV surveillance, they'll move on to the place that doesn't. These dummy cameras look totally convincing - they have genuine-looking IR LEDs and a real LED that adds to the illusion. Add a couple of warning signs and the baddies will never know the difference.

- Requires 2 x AA batteries
- Mounting hardware included
- UV Stabilised
- Dimensions: 175(L) x 85(Dia)mm



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	LA-5325	\$24.95	\$22.35	\$20.95

INSTALLATION GUIDE

CCTV Installation Guide

This guide explains the various pieces of equipment required, the options available for installation and the different methods of viewing and recording the images. Topics cover camera types, lenses, light levels, power supplies, camera positioning, switchers, monitors and recorders.



Type	Cat.	Qty 1+
8 pages, A4	BI-8206	\$2.00

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

Dummy IR Camera Kit with Flashing Sign

If your premises looks like it has CCTV surveillance, potential burglars may move on to the place that doesn't. This dummy IR camera kit comes with two dummy cameras and a flashing CCTV sign, the cameras have genuine looking IR LEDs and a real LED that adds to the illusion. The CCTV flashing sign is solar powered and can be changed to not flash by covering the solar panels on the side.

Included:

- 2 x Dummy IR cameras
- CCTV flashing sign / 2 x CCTV stickers
- Each camera requires 2 x AA batteries
- Mounting hardware included
- Camera Dimensions: 175(L) x 85(Dia)mm
- Flashing Sign Dimensions: 50(L) x 10(W) x 50(H)mm



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullets	LA-5329	\$59.95	\$53.95	\$50.95

Dummy Wireless Camera with Flashing LED

A realistic-looking but fake wireless camera with a high brightness flashing red 3mm LED, which gives the illusion to would-be thieves that they are being watched. The camera position can be adjusted horizontally and vertically for the best angle. Great for home, office, schools or any location to discourage thieves.

- Requires 3 x AA batteries
- Includes mounting hardware
- Camera dimensions (excl bracket): 155(L) x 60(W) x 50(H)mm



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	LA-5334	\$14.95	\$13.35	\$12.70

Dummy Camera Theft Prevention Kit

Warn off thieves with this theft deterrent pack which includes:

2 x dome cameras, 2 x bullet cameras and a warning window sticker.

Each camera includes a flashing LED to simulate realistic looking cameras. Everything you need in one pack to discourage thieves; perfect for offices, homes, schools etc.

- Batteries required:
Dome - 2 x AA (not included)
Bullet - 2 x AAA (not included)



Type	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x Bullet, 2 x Dome	LA-5336	\$59.95	\$53.95	\$50.95

Workbench sent to us by:
Chris Jaycar Store: Springfield

One corner of my work shed, where I play with wood, metal and electronics.

For more details, visit:
www.jaycar.com.au/workbench



RELATED PRODUCTS

FROM
\$4.95
AR-1415



SCREEN CLEANER

P305

FROM
\$8.50
WA-7078



RCA LEADS

P362

FROM
\$6.15
HP-1218



SPIRAL BINDING

P208

FROM
\$11.95
XC-4998



SD CARDS

P336

SECURITY & SURVEILLANCE

TIME LAPSE CAMERAS & ACCESSORIES

TIME LAPSE CAMERAS

Time Lapse HD Video Camera with LCD Viewfinder

Create amazing time lapse videos in high definition with this clever time lapse camera. It captures images at a preset intervals between 1 second to 24 hours and creates an AVI video file that you can playback later. Setup and operation is easy; simply use the LCD viewfinder and 120 degree rotatable lens to frame your subject, set the time interval, and start capturing. The video on the included 2GB SD card can be played back on a computer, media player, suitable TV or digital photo frame. The supplied 4 x AA batteries can capture 300,000 frames. It can also be powered from the USB port of a computer (USB cable required).

Specifications	QC-8034
Video format	AVI
Resolution	1280 x 720, 640 x 480
Field of view	59 degrees
Focal length	36mm (35mm equivalent)
Focus distance	75cm (Minimum)
Time Interval	from 1 second to 24 hours
Memory storage	SD Card (Supports up to 32GB)
LCD Screen	1.44" Colour TFT
Power Source	
Battery	4 x AA included
DC	5VDC (Micro USB connector)
Dimensions	106(H) x 64(W) x 46(D)mm
Weight	120g



OPTIONAL ACCESSORIES



Use the QC-8033 remote control to create stop motion footage



Note: Accessories not stocked at all stores - call ahead first

	Cat.	Qty 1+	Qty 2+	Qty 4+
Time Lapse Camera & Recorder	QC-8034	\$289.00	\$259.00	\$239.00
Motion Sensor PIR to Suit	QC-8035	\$89.95	\$80.95	\$74.95
Waterproof Housing to Suit	QC-8037	\$109.00	\$97.95	\$92.45
Bag Pouch to Suit	QC-8039	\$39.95	\$35.90	\$33.90
Shutter Cord Switch to Suit	QC-8033	\$19.95		

HDR Time Lapse Professional Video Recorder

Easily create stunning time lapse videos with the push of a button. This model features an advanced HDR image sensor so it is able to capture excellent videos in harsh light without washing out the image. It will also capture very well in darkness. The HDR sensor creates a richness in the image quality that traditional digital sensors can't.

There is a 1.44" LCD viewfinder so you can setup the perfect angle and set it to record. The included lens is CS mount, so it can be interchanged with virtually any other CS mount lens but results may vary.

- A 4GB SD card is included which can capture up to 30,000 images.
- Still images can be taken with the use of an additional accessory (QC-8033)

Note: Different CS mount lenses may produce varying results

Specifications	QC-8038
Camera	
LCD Screen	1.44" TFT LCD
Lens Rotating Angle	120°
Capture mode	
Time lapse	Auto generation of time lapse video
Image sensor	
Type	1/3" HDR sensor
Dynamic range	115dB
Resolution	1.3 Mega pixel
Sensitivity	3650mV/lux-sec
Optical lens (BCS 019)	
Type	CS Mount (Aspherical Glass Lens)
Aperture	F 2.0
Field of view	112°
Focal length	19mm (35mm equivalent)
Focus distance	Manual focus from 1cm to infinity
Shooting settings	
Scenes	Daylight, twilight, night, moon
White balance	Auto, day, shade, cloudy, fluorescent light (cool) fluorescent light (warm), tungsten light
Custom image	Exposure, saturation, contrast, sharpness

WATERPROOF HOUSING TO SUIT

- Weight: 99g
- 125(H) x 89(W) x 54(D)mm

QC-8040



STOP MOTION SHUTTER LINE

QC-8033



Recording	QC-8038
Video format	AVI MJPG (Motion JPG)
Resolution	1280 x 720
Still image format	1280 x 720 JPG (only when using with shutter line available separately QC-8033)
Memory storage	SD Card (4GB SD Card included, supports up to 32GB)
Power Source	
Battery	4 x AA (included)
DC	5VDC (Micro USB connector)
Dimensions	105(H) x 64(W) x 45(D) mm
Weight	120g

	Cat.	Qty 1+	Qty 2+	Qty 4+
Time Lapse Camera & Recorder	QC-8038	\$509.00	\$449.00	\$429.00
Weatherproof Housing	QC-8040	\$79.95	\$71.95	\$67.95
Stop Motion Shutter Line	QC-8033	\$19.95		

RELATED PRODUCTS

FROM
\$6.95
SB-2902



PREMIUM AA BATTERIES P279

FROM
\$11.95
XC-4998



SD CARD P336

FROM
\$19.95
XC-4926



CARD READER P336

FROM
\$84.95
AM-4040



PARABOLIC MICROPHONE P420

STAND ALONE CAMERAS WITH RECORDING

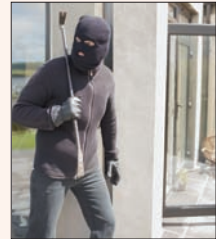
Outdoor 5MP Security Camera with PIR

A motion activated weatherproof camera suitable for outdoor domestic security applications. It will record video in 720p quality when motion is detected for you to playback later on a computer or TV.

- Features a bright 38 LED infrared light to illuminate objects at night, LCD status display, and schedule function
- SD card is required (available separately) as well as 4 x C batteries, which can last for months
- Option for a 6VDC power supply (use MP-3145)
- Easy to install and operate



Specifications	QC-8027
Operation	Day/Night(24hours), Day (Colour)/Night (Black/White)
Image Sensor	5MP Colour CMOS sensor
Picture Resolution	8MP max
Video Resolution	1280 x 720(20fps) with Audio
Lens	50° Field of View
IP Rating	IP66
IR Range	Up to 9m
IR Illumination	38 IR Emitters
Time Lapse	5 - 600 seconds programmable
Delay Time	1 - 600 seconds programmable
Stamping	Date/Time stamped on still image/video
User Interface	Bottom control panel with LCD Display
External Memory	SD-card up to 32GB
Ports	TV Out, USB, SD Card, 6V DC
Video output	PAL, NTSC
Power Supply	4 x C cells or 6VDC (not included)
Dimensions	140(H) x 75(Dia)mm, 280g



BEST SELLER

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-8027	\$179.00	\$160.95	\$151.95

OUTDOOR DVR MONITORING SYSTEMS

Motion Activated Outdoor Camera with IR Flash

A weather resistant outdoor camera for a wide range of outdoor applications, including surveillance around the home, office or warehouse, or for wildlife applications. The PIR sensor triggers the 7MP camera for colour photos and videos by day or monochrome photo and videos by night. Night vision is assisted using the bright IR flash, which illuminates objects up to 12 metres away.

Photos and videos up to 90 seconds long are recorded to its 16MB internal memory or an SD Card (up to 32GB, available separately) for more storage. Playback the vision on the integrated colour LCD screen while in the field, or by connecting to a PC.

Other features include a fast 1.3sec trigger time, highly sensitive microphone, TV output, and security lock hole for a padlock. Power is provided by 4 x D and 3 x C batteries (batteries required). We recommend Alkaline batteries for longer operation. Supplied with USB and TV cable, mounting strap, lens hood and instruction manual.

- 3MP camera (up to 7MP Interpolated)
- Adjustable sensitivity (motion sensor)
- Time lapse
- 5mm/8mm mixed infrared LED technology for wide and longer illumination
- Fast trigger time 1.3s at turbo mode
- Separate controls for camera and sensor, ideal to instant setup directly
- Time and Date stamp
- Built-in 2.4" TFT screen
- Backlit for Motion control LCD
- Pause time: 0-60 minutes
- Video length: 3-90s for day and night
- 1-3 Quick Shots setting
- 2-5 Burst Shots setting

Specifications	QC-8048
Video resolution	HD 1280 x 720 at 30fps
Power	4 x D & 3 x C Batteries required
Weight	518gm without batteries
Dimensions	192(H) x 120(W) x 90(D)mm



QC-8048

Solar Panel Charger - QC-8045

A solar panel add-on to suit the QC-8048 outdoor camera to allow continuous operation without the need to worry about battery levels again. Features an in-built 3000mAh battery which recharges via the solar panel. Includes a solar panel regulator, in-built battery, mounting bracket and hardware.

- Solar Panel: Polycrystalline
- Solar Output: 3W
- Battery: 3.7V, 3000mAh
- Solar Panel Charge Time: 5-7 hours
- IP Rating: IPX5
- Dimensions: 230(L) x 160(W) x 18(D)mm



IR Wired Flash - QC-8042

Gooseneck sensor on the booster is triggered by the cameras built-in flash so both will occur synchronously. Features 36 wide angle IR LEDs and a 2m cable.

- Extension port to 'daisy chain' multiple flash units
- Adjustable illumination angle
- Requires 2 x D Batteries or 3VDC power supply
- Dimensions: 115(H) x 57(W) x 90(D)mm



IR Wireless Flash - QC-8044

Wireless unit will detect a flash from the main outdoor camera and simultaneously flash to give more IR coverage to the target. The 128 infrared LEDs are invisible to the human eye. Belt mount so it can be attached to a tree or pole.

- Supplied with transmitter with antenna, belt.
- Adjustable illumination angle
- Requires 4 x D Batteries or 6VDC powered
- Dimensions: 145(H) x 100(W) x 70(D)mm



Security Bracket to suit - QC-8046

Mount your QC-8048 Outdoor Camera securely to a tree using this tough anodised camouflage green bracket. Four mounting holes for screws or cable ties, and keep in place using padlocks (not included).

- Dimensions: 173(L) x 153(W)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
3MP Outdoor Camera	QC-8048	\$179.00	\$160.95	\$151.95
Solar Panel to suit NEW	QC-8045	\$179.00	\$160.95	\$151.95
IR Wired Flash to suit	QC-8042	\$99.95	\$89.95	\$84.95
IR Wireless Flash to suit	QC-8044	\$129.00	\$115.95	\$109.95
Bracket for QC-8048	QC-8046	\$12.95	\$11.35	\$10.95

WARNING:

These cameras should not be placed in areas where there is an expectation of privacy. Such places typically are: bathrooms, bedrooms, toilets, dressing rooms etc.. Use of these devices in such locations, can lead to criminal prosecution and severe penalties.

COVERT SURVEILLANCE

8GB Pen Video Camera - 720p

Maxwell Smart would have loved to have one of these to go with his shoe phone. Capture video, audio or still photos discreetly and quickly, then transfer them onto your PC via USB. The built-in memory stores up to 8GB, so there's plenty of capacity for taking electronic notes at your next meeting or protecting your legal rights by capturing a video or audio record of an event. It also functions as a conventional ballpoint pen.

- One-button operation
- Recharges via USB
- Record up to 1 hours of video
- Up to 2000 photos

Specifications	QC-8017
Format	AVI, JPEG
Encoding	M-JPEG
Resolution	1280 x 720 - 720p
Frame rate	30fps
Still image resolution	1600 x 1200 jpg
Dimensions	148(L) x 15(D)mm

- Black ink refill available separately - QC-8024



	Cat.	Qty 1+	Qty 2+	Qty 4+
8GB Pen Camera	QC-8017	\$89.95	\$80.95	\$74.95
Spare Pen Refill - Black Ink	QC-8024	\$6.95	\$6.25	\$5.75

"Spy" Watch with High Definition Camera Recorder

Not only a fully functional, quality and stylish watch, it also has a built-in high definition video recorder. On the dial of the watch lies the camera lens that is almost invisible to the naked eye. It will record at 1280 x 960 video resolution and 3264 x 2448 still images into the 4GB memory that is built-in.

It also has a built-in microphone hidden on one of the knobs. Unit has an internal lithium battery that charges via the USB cable provided. Although the watch looks like a divers watch, the unit is not waterproof.

- Watch bezel measures 42(Dia.) x 15(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
4GB Watch Camera	QC-8070	\$99.95	\$89.95	\$84.95

WARNING:

These cameras should not be placed in areas where there is an expectation of privacy. Such places typically are: bathrooms, bedrooms, toilets, dressing rooms etc.. Use of these devices in such locations, can lead to criminal prosecution and severe penalties.

WI-FI HIGH DEFINITION CAMERAS

720p High Definition PIR Pinhole Wi-Fi Camera

Housed within this Wi-Fi PIR is a pinhole camera which records video in 720p high definition to a microSD card (available separately) or on your Smartphone. Once movement is detected it will send an alert to your Smartphone. Discrete infrared LED's help illuminate a dark room, and there is a microphone built-in so you can listen in the room via your Smartphone. Suitable for almost any area which needs monitoring covertly. Supplied with a mains power adaptor, 3m Power Cable, mounting bracket & mounting hardware.

- Video & Image Recording
- Supports iOS® & Android Smartphones
- Alarm Notification Via Smartphone App
- One Way Audio Via Smartphone App
- Motion Trigger Recording
- Plug & Play (P2P) Technology, Easy Network Setup

Specifications	QC-3860
Resolution	720p (1280 x 720), VGA (640 x 480)
Frame Rate	720p @ 25fps, VGA @ 25fps
Viewing Angle	70°
Video Format	ASF (H.264)
Infrared	23 x IR LED's
Wi-Fi Range	up to 50m
Frequency	2.4GHz
Storage	up to 32GB microSD card
Power Supply	6VDC, 800mA
Dimensions	103(L) x 60(W) x 29(D)mm



View live footage on a Smartphone
Smartphone not included

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Wi-Fi Pinhole Camera	QC-3860	\$169.00	\$151.95	\$142.95

LCD Clock with Hidden 720p Camera

A full function LCD clock with a hidden 720p high definition camera. Set it up in an area of concern and it will detect motion then commence recording footage in high definition (1280 x 720) onto a microSD card. Playback the files on a computer using the supplied USB cable to see what really happened. An infrared remote control is also included so you can manually record. It includes a rechargeable battery, which can be recharged from a USB port of a computer or USB adaptor with the supplied cables. It is a fully functional clock, with time, date, alarm and three brightness settings. Includes a 4GB microSD card.



Specifications	QC-8660
Resolution	720p (1280 x 720)
Video Format	AVI
Viewing Angle	120°
Charge Time	up to 3 hours
Run Time	up to 3 hours
Storage	up to 32GB microSD card (4GB included)
Dimensions	115(W) x 68(H) x 38(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
LCD Clock Camera	QC-8660	\$129.00	\$115.95	\$109.95

"Spy" Parabolic Microphone with Recorder & 8x Magnifier

We stocked this unit many years ago at a much higher price and without the recording ability. The main feature of the unit is the 8" (200mm) parabolic reflector for the inbuilt microphone. This magnifies sounds from up to 100 metres (300 feet) away as if the source was standing next to you. Its uncanny! It is ideal for studying birds and other wildlife as you can use the 8 x image magnifier/monocular to observe as well. If you want, you can record the (sound) event with the inbuilt digital recorder and transfer it to your computer safely later.

It is equipped with a sturdy set of high quality headphones with comfortable ear pads to screen out extraneous noise. Also to assist in this, there is a special background noise filtration unit which is controlled from the body of the pistol-grip unit.



- Fabulous product and is ideal for the nature lover.
- 9V battery required (not included).
- Parabolic reflector: 200(Dia.)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	AM-4040	\$84.95	\$76.45	\$67.95

720p High Definition P2P Wi-Fi Camera

This model features a 720p camera that produces a bright and sharp vision for you to survey the home or office. It features the latest (P2P) plug-and-play technology so it's very easy to setup. The audio is two way, so you can plug in a microphone to hear sound remotely. You can also connect a speaker to be able to transmit audio to those near the camera (speaker is not included).

It can trigger the capture of still images or video when motion or sound is detected as well as send an email. It can be setup to capture video to a microSD card (available separately).



Specifications	QC-3842
Sensor	1/4" colour CMOS sensor
Sensor resolution (H x V pixels)	720 x 1280 at 30fps
Horizontal resolution	720P
IR illumination	12 LEDs
Wireless Security	WEP, WPA, WPA2
Wireless Distance	up to 50m
Effective IR range	Up to 15 metres
Lens	3.6mm lens, 90° angle
Power supply	5VDC (included)
Current draw	90mA (IR OFF), 400mA (IR ON)
Dimensions	125(H) x 100(L) x 100(W)mm



View live footage on a Smartphone
Smartphone not included

	Cat.	Qty 1+
720p HD Wi-Fi Dome Camera	QC-3842	\$149.00

WI-FI HIGH DEFINITION CAMERAS (CONTINUED)

720P High Definition P2P Wi-Fi Camera

This HD camera with Wi-Fi support allows you to set up a surveillance system without confusing cables. The P2P function makes it easy and simple to connect, without the need for confusing port mapping, DNS, and IP address settings. Using your Smartphone you can log in to view what is happening in your home or office anywhere, anytime! The camera features an IR-cut filter to provide a true colour experience, and can be easily configured to automatically email and/or upload images to an FTP server at defined intervals or when motion is detected. Supplied with mains power supply and supports up to 32GB microSD card (available separately).

Specifications	QC-3840
Image sensor	1/4" colour CMOS sensor
Viewing Angle	60°
Audio	Two way
Infrared light	8 IR LEDs with up to 15m night visibility
Resolution	1280 x 720 (720p), 640X480 (VGA), 320X240 (QVGA)
Power	5V/2.5A DC, 1.5m, 5W (Mains adaptor included)
Supports	iPhone®, iPad®, Android® Smartphone
Dimensions	125(H) x 100(W) x 95(L)mm



View live footage
on a Smartphone
Smartphone not included



	Cat.	Qty 1+
720p Wi Fi P2P Camera	QC-3840	\$139.00

720p High Definition Outdoor Wi-Fi Camera

With the incorporated (P2P) plug-and-play technology this tough external camera equipped with Infrared LEDs for night monitoring is one of the easiest video security products to setup. View live footage on your Tablet or Smartphone in minutes. Unlike traditional digital network camera s, there is no specialised IT technical expertise required during installation. No router setup required, No port forwarding to be done, a static IP address is not required from your internet service provider. All of this highly technical expertise is simply not needed to install this camera, making it a breakthrough in technology, and one of the easiest to install tablet / Smartphone connect security camera products ever.

Specifications	QC-3846
Sensor	1/3" colour CMOS sensor
Sensor resolution (H x V pixels)	720 x 1280 at 25fps
Horizontal resolution	720TV@ 25fps
Minimum illumination	0.01Lux
IR illumination	12 LEDs
Wireless Security	WEP, WPA, WPA2
Wireless Distance	50m (Clear Line of sight)
Effective IR range	Up to 12 metres
Lens	3.6mm lens, 90° angle
IP rating	IP66
Power supply	5VDC (included)
Dimensions	155(L) x 87(W) x 73(H)mm



View live footage
on a Smartphone
Smartphone not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Outdoor Wi Fi Camera	QC-3846	\$179.00	\$160.95	\$151.95

720p High Definition Indoor Rechargeable Wi-Fi Camera

Connects to your Wi-Fi network and streams high definition video with audio to a computer or Smartphone on or outside the network with password access. Setup is a breeze too using the built-in P2P technology - no confusing IP or router settings needed! There is an APP so you can put 3-4 cameras like this in your workplace, home or anywhere needed and monitor via your Smartphone. The built-in battery allows you to locate it away from power for a few hours for a temporary surveillance application.

- Works with Smartphone via Wi-Fi and free App.
- Easy and friendly user interface
- Easy to save photos and video to Smartphone
- Built-in Motion detector and night vision
- Support H.264 Video Compression, 720p HD Video quality
- Support operating system 5.1(iOS®) / 4.2(Android®) or higher
- Battery Life: 2 hours (rechargeable battery)
- Dimensions: 75(D) x 43(H) x 38(W)mm



View live footage
on a Smartphone
Smartphone not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Indoor Wi Fi Camera	QC-3848	\$189.00	\$169.95	\$160.45

720p High Definition P2P Wi-Fi Pan & Tilt Camera

Featuring Pan/ Tilt functionality and incorporated (P2P) plug-and-play technology, this Wi-Fi IP camera is the way to go. This model features a 720P camera that produces a bright and sharp vision for you to survey the home or office. The audio is two way, so you can plug in a microphone to hear sound remotely. You can also connect a speaker to be able to transmit audio to those near the camera (speaker is not included). It can trigger the capture of still images or video when motion or sound is detected as well as send an email. It can be setup to capture to a micro SD card (available separately). The sensitivity of the capture source can be adjusted. You can also wire up an alarm (available separately) to this unit and set it to sound when motion or sound is detected. View live footage on your Tablet or Smartphone in minutes.

Camera Specifications	QC-3844
Sensor	1/4" colour CMOS sensor
Horizontal resolution	720TVL@ 25fps
Minimum illumination	0.01 Lux
IR illumination	8 LEDs
Wireless Security	WEP, WPA, WPA2
Wireless Distance	50m (Clear Line of sight)
Effective IR range	Up to 12 metres
Lens	3.6mm lens, 90° angle
Power supply	5VDC (included)
Current draw	90mA (IR OFF), 400mA (IR ON)
Still Image Capture	1280 x 720pixels
Pan/Tilt angle	320° Pa, 120° Tilt
Dimensions	125(H) x 100(W) x 95(L)mm



View live footage
on a Smartphone
Smartphone not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Wi Fi Pan Tilt Camera	QC-3844	\$189.00	\$169.95	\$160.45

TECH TALK!

WHAT IS AN IP CAMERA?

An IP camera is a networked digital camera that transmits data over a fast Ethernet link. IP cameras (also called "network cameras") are most often used for IP surveillance, a digitized and networked version of closed circuit television (CCTV).

The benefits of IP cameras over analogue technology include:

- Remote administration from any location
- Digital zoom
- The ability to easily send images and video anywhere with an Internet connection
- Progressive scanning, which enables better quality images extracted from the video, especially for moving targets

- Adjustable frame rates and resolution to meet specific needs
- Two way communications
- The ability to send alerts if suspicious activities are detected
- Lower cabling requirements
- Support for intelligent video

It should be noted that IP surveillance has greater complexity and bandwidth requirements.

WIRELESS DVR COMPARISON GUIDE

These compact camera and DVR kits are easy to install and suitable for surveillance in and around a small shop, office or home. Up to 100m range between camera and receiver provides you with ample coverage, and the digital 2.4GHz wireless signal delivers clear, flicker free images. MJPEG video compression makes efficient use of the available bandwidth while frequency hopping drastically reduces signal interference caused by other electronic devices. The weatherproof cameras are suitable for use outdoors and withstand common outdoor weather conditions, including heavy rain. You can continue to monitor and record in complete darkness with the built-in IR LEDs illuminating objects up to 5m away. The receiver records to a SD memory card (up to 32GB), making it easy to transport footage offsite.



Use our selection guide to help choose...

	QC-3676	QC-3673	QC-3675	QC-3760
LCD Screen	-	3.5"	7"	7"
Resolution	-	320 x 240	640 x 480	800 x 480
Included Cameras	1	1	1	1
Supports up to 4 Cameras	✓	-	✓	✓
Weatherproof Camera	✓	✓	✓	✓
Quad View Option	-	-	✓	✓
Records to SD Card	✓	✓	✓	✓
Composite Output	✓	-	✓	✓
Camera Resolution	420TVL	420TVL	420TVL	720p
Remote Viewing	-	-	-	✓
Page	422	423	423	423

WIRELESS DVR & CAMERA KITS - DIGITAL 2.4GHZ

Digital Wireless Receiver DVR with 1 x IR Camera Kit

This simple to install security kit includes a digital wireless DVR and 1 x IR camera to assist in monitoring environments subject to criminal behaviour, simply connect the DVR to your TV to monitor the camera feed. Wireless allows you to bypass the need to run metres of CCTV cabling in hard to reach areas.

Though 1x IR camera is included, the unit can be expanded up to 4 cameras which can be purchased separately (QC-3677).

Minimal setup required.

Display	QC-3676
Display	not included
Effective Pixels	N/A
Video format	NTSC/PAL
Video Compression	MJPEG - 4
Video inputs	4 Channel wireless single - Supports up to 4 cameras
Outputs	1 composite output / 1 x composite
Frame rate	640x480 20fps VGA 220x240 25fps QVGA
Memory card	Up to 32GB (SDHC)
Frequency	2.4GHz (Digital FHSS)
Transmission Range	Approx 100m (open sight) - estimate under ideal conditions
Power supply	12VDC 1A
Dimensions	112(W) x 111(H) x 20(D)mm*

Camera	QC-3677
Sensor	1/4" OV7725 CMOS
Horizontal resolution	420TVL
Minimum Illumination	0 Lux (IR ON)
Lens	6mm
Voltage	5VDC 1A
Dimensions	50(Dia.) x 69(D)mm (excluding sun shade)

- WHAT'S IN THE KIT?**
- 1 x IR Camera
 - 1 x DVR/Receiver Unit
 - 2 x Power supplies
- WHAT YOU MAY NEED**
- Additional Cameras - up to total of 4. Use Cat. QC-3677
 - SD Memory card (SDHC) up to 32GB
 - Monitor QM-3752
- OPTIONAL**



FEATURES



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
Receiver & Camera Kit	QC-3676	\$229.00	\$205.95	\$194.45
Wireless Spare Camera	QC-3677	\$139.00	\$124.95	\$119.95

WIRELESS DIGITAL DVR & CAMERA KITS (CONTINUED)

Digital 2.4GHz Wireless 3.5" LCD & Camera Kit

This wireless surveillance kit allows you to get on with your work while keeping a close eye on what is happening around and behind you. The included wireless monitor with 3.5" colour display mounts to a glass or flat surface using the supplied bracket with suction cup, and features a built-in speaker with adjustable volume. The wireless digital camera features an adjustable mounting bracket, high sensitivity microphone, antenna and infrared LEDs to illuminate intruders at night time. The system uses digital 2.4GHz technology for a secure and interference free transmission. Suits a wide range of surveillance applications for shops, home, workshop and baby care.

Kit includes:

- 1 x Wireless 3.5" LCD with suction cup bracket
- 1 x Wireless IR camera
- 2 x 5V DC mains power adaptors

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3673	\$149.00	\$133.95	\$129.00

Digital Wireless Receiver DVR with 7" LCD & Camera Kit

A ready to go wireless security solution with minimal setup steps. It's a full kit complete with a 7" LCD/DVR combo, and 1 x camera to help you monitor the goings on your office, retail shop, or workshop. Wireless design means you don't have to spend time and money having CCTV cables installed in walls, roofs, or other locations.

1 x IR wireless camera is included but extras can be purchased separately (QC-3677), a total of 4 cameras can be used. The camera has a motion sensor which will help trigger recording when movement is detected and the IR LEDs means you can record at night. The LCD screen can be set into 4 frames allowing you to simultaneously view input from 4 different camera sources. The receiver can record to an SD memory card (available separately) to playback at a later date.

Spare Cameras to suit QC-3675: QC-3677



WHAT'S IN THE KIT?

MONITOR

WHAT YOU MAY NEED

OPTIONAL

- 1 x IR Camera
- 1 x DVR/Receiver
- 2 x Power supplies
- 7" TFT LCD Built into Receiver
- Additional Cameras - up to total of 4. Use Cat. QC-3677
- SD Memory card (SDHC) up to 32GB

Display	QC-3675
Display	7" TFT LCD
Effective Pixels	640x480
Video format	NTSC/PAL
Video Compression	MJPEG - 4
Video inputs	4 Channel wireless single - Supports up to 4 cameras
Outputs	1 composite output / 1 x composite
Frame rate	640x480 20fps VGA 220x240 25fps QVGA
Memory card	Up to 32GB (SDHC)
Frequency	2.4GHz (Digital FHSS)
Transmission Range	Approx 100m (open sight) - estimate under ideal conditions
Power supply	12VDC 1A
Dimensions	200(W) x 118(H) x 20(D)mm
Camera	QC-3677
Sensor	1/4" OV7725 CMOS
Horizontal resolution	420TVL
Minimum Illumination	0 Lux (IR ON)
Lens	6mm
Voltage	5VDC 1A
Dimensions	50(Dia.) x 69(D)mm (excluding sun shade)

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
DVR & Camera Kit	QC-3675	\$299.00	\$269.00	\$249.00
Wireless Spare Camera	QC-3677	\$139.00	\$124.95	\$119.95

4 Channel 7" LCD DVR and 1 x 720p Camera Kit with Ethernet

This wireless surveillance kit is ideal for homes, offices or retail stores where security is essential. Monitor footage on the 7" LCD screen or remotely on your iPhone® or Android device. Recording can be motion-triggered to save storage space on your SD card (available separately) so you never miss a thing. It can also be used for larger areas: simply purchase additional cameras (QC-3761) as required (maximum of 4 cameras) & you're ready to go.

- Quad viewing mode
- Supports iOS® and Android Smartphones
- Record & playback simultaneously
- Motion detection, scheduled & manual recording modes

Wireless LCD Monitor	QC-3760
Display	7" LCD
Resolution	800 x 480
Video Compression	MPEG4
Frequency	2.4GHz Digital
Transmission Distance	up to 100m
Storage	Supports up to 64GB SD Card
Power Supply	12V, 1.25A
Dimensions	183(W) x 136(H) x 30(D)mm

Wireless Camera	QC-3760
Image Sensor	1/4" Colour CMOS
Megapixel	1.2MP
Lens	3.6mm Fixed Focal
Resolution	720p (1280 x 720), VGA (640 x 480)
Frame Rate	720p @ 15fps, VGA @ 20fps
IR Led's	24 pieces
IP Rating	IP65
Power Supply	5V, 1A
Dimensions	140(L) x 95(Dia)mm



View live footage on a Smartphone
Smartphone not included



FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
7" DVR Kit	QC-3760	\$379.00	\$339.00	\$319.00
Spare Camera	QC-3761	\$139.00	\$124.95	\$119.95

SECURITY & SURVEILLANCE VIDEO DOORPHONES

VIDEO DOORPHONES - WI-FI

720p Wi-Fi Video Doorphone with Smartphone App

This Wi-Fi enabled video doorphone allows you to interact with your visitors even when you are not home. You will be able to look at, talk to and even open the door for your guest (doorstrike available separately) over your Smartphone or Tablet via the internet. For the unexpected guests, you can choose to take photo or record video at a push of a button on your phone or simply turn on the motion detection mode for constant security surveillance. Photos and 720p videos are recorded on a microSD card (up to 32GB and available separately) and also uploaded to a cloud server via Wi-Fi or Ethernet connection. The recordings on the cloud server can be accessed and viewed at any time and also by multiple users via the free apps available for both Android and iOS. The doorphone is IP55 weatherproof and also has IR illumination built-in for day and night operation. Mains power supply included. Includes external audio buzzer, power supply, 3m power lead and mounting hardware.

- Video & Image Recording
- Motion Trigger Recording
- 2 Way Audio Intercom
- Tamper Alarm
- Ethernet & Wi-Fi Connection
- Remote Unlock (door strike available separately)
- Supports iOS® and Android Smartphones
- Plug & Play (P2P) Technology, Easy Network Setup

Specifications	QC-3698
Resolution	720p (1280 x 720) @ 30fps VGA (640 x 480) @ 30fps
IP Rating	IP55
Storage	supports up to 32GB microSD Card
Input Voltage	9-16VDC / 9-16VAC
Power Supply	9VDC, 2A included
Dimensions	142(H) x 85(W) x 55(D)mm (including bracket)

Audio Buzzer	
Frequency	433MHz
Battery	Requires 2 x AA
Dimensions	95(H) x 61(W) x 20(D)mm

iOS and Android Apps available for download from the App Store and Google Play.



View live footage on a Smartphone
Smartphone not included



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wi-Fi Video Doorphone	QC-3698	\$239.00	\$214.95	\$190.95

VIDEO DOORPHONES - WIRELESS

3.5" LCD 2.4GHz Digital Wireless Video Doorphone

Not your average video doorphone. This wireless solution utilises the newest digital 2.4GHz transmission technology; ensuring maximum transmitting distance (80m clear line of sight) with crystal clear picture quality. It also incorporates a PIR motion detection on the camera face and will record any visitor within range. It will also take a snap shot of your visitor pressing the doorbell ensuring that you have a record at all times. The 3.5" LCD receiver is very slim and elegantly designed. It has a rechargeable battery included which can dock on the desktop charging base supplied. The outdoor camera is supplied with a rain shield to protect it from the elements and is IP55 weatherproof rated. It has an integrated door lock control located on the rear of the camera for ease of wiring installation (locks available separately).

- Supplied with power supplies for LCD receiver and camera unit and mounting hardware.

Camera	QC-3400
Power Consumption	400mA
IP Rating	IP55
Resolution	300K pixels
Viewing Angle	120 degrees
Input Voltage	5VDC @ 1A
Dimensions	74(W) x 134(H) x 31(D)mm

3.5" LCD Monitor	QC-3402
Power Consumption	400mA
Frame Rate	25fps
Run Time	4 hours continuous
Input Voltage	5VDC @ 1A
Dimensions	84(W) x 126(H) x 20(D)mm

2.4GHz Digital



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Video Doorphone with 3.5" LCD	QC-3400	\$319.00	\$279.00	\$249.00
Additional 3.5" LCD Wireless Monitor	QC-3402	\$169.00	\$151.95	\$134.95

Wireless 7" Touch Screen Doorphone with Recording

Wireless and convenient doorphone kit with a 7" colour screen, perfectly suited for homes, apartments, villas, hotels and offices etc where a wired unit can't be installed. The door unit has a call button, microphone and speaker, camera with infrared LEDs to illuminate who is at the door during night time, antenna, and can be powered using 6 x AA batteries or the supplied mains power adaptor. The answering unit has a 7" colour wide screen along with speaker, microphone, signal/power indicators, antenna & mains power adaptor.

There is also a microSD slot if you want to record who visits you when you're not home, and an AV output to playback on a TV. The system uses digital technology for a secure and interference free video and audio signal. There is also a provision to open a door that has a door strike fitted (sold separately).

- Media storage: microSD card available separately up to 32GB

KIT INCLUDES

- 1 x 7 inch colour LCD digital wireless answering unit
- 1 x Digital wireless door unit
- 1 x 12V 1A mains power adaptor for door unit
- 1 x 5V 1A mains power adaptor for answering unit
- 1 x DC power cable
- 1 x Unlock connection cable for a door strike
- 2 x Water resistant plugs
- 1 x Mounting bracket
- 1 x Mounting pack & hardware

Specifications	QC-3624
Doorphone	
Communication range	up to 100m
Camera resolution	640 x 480 (VGA)
Operating voltage	15VDC, 1.5A
Current consumption	180mA
Dimensions	145(L) x 85(W) x 36(D)mm
LCD Screen	
Screen resolution	640 x 480 (VGA)
Operating voltage	5VDC, 1A
Dimensions	221(L) x 143(W) x 35(D)mm

SD card capacity	Recording time
1GB	110 minutes
2GB	219 minutes
8GB	875 minutes
16GB	1750 minutes
32GB	3580 minutes



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Doorphone with 7" Touchscreen Monitor	QC-3624	\$449.00	\$399.00	\$359.00

VIDEO DOORPHONES - WIRED

7" Slimline Video Doorphone

A stylish, elegant and simple to use doorphone that will not look out of place in your home or office. This 7" video doorphone kit is supplied with a slimline 7" monitor finished in white matt colour. It comes with an IP55 rated infrared camera that incorporates a rain shield to protect it from the elements. Operation is very simple, you are able to communicate with your guests with amazing clarity and be able to allow entry at a press of a button (door strike available separately). You are able to expand the system by adding an extra monitor (available separately).

- Brightness and colour adjustments
- Ring Tone Selection
- Doorbell volume control
- Infrared illumination for night time operation

Specifications	QC-3696
Power supply	12VDC
Resolution	420 TV lines
Monitor Dimensions	119(H) x 208(W) x 22(D)mm
Camera Dimensions	159(H) x 120(W) x 38(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Slimline Video Doorphone with 7" Monitor	QC-3696	\$209.00	\$187.95	\$166.95
Spare Monitor	QC-3699	\$159.00	\$142.95	\$126.95

2.5" LCD Video Doorphone with RFID access

Enjoy the peace of mind a video doorphone can bring. This stylish and high quality unit consists of an outdoor camera with door bell/entry button as well as RFID access and a separate indoor 2.5" LCD for easily identifying visitors. With the indoor unit, you can remotely lock/unlock the door (door lock available separately), switch on video and answer calls. The outdoor camera uses 6 x white high brightness LEDs to illuminate visitors at night. Pressing the bell button on the outdoor camera will signal a bell warning on the indoor unit which can be answered like a regular telephone. You can then verbally communicate and see video footage of your guest.

RFID keys can be programmed for access so regular users of the system are granted entrance by simply placing their tag over the outdoor camera unit. 3 tags are included with the unit, a master, slave, and delete tag. Use the master tag to program new slave tags (standard RFID cards can be used), and use the delete tag to remove tags from the system. A versatile device suitable for home use, or offices that require some form of access identification/authorisation for staff or frequent visitors.

- 2.5" Colour LCD
- Outdoor camera dimensions: 142(H) x 92(W) x 40(D)mm
- Monitor dimensions: 180(H) x 79(W) x 33(D)mm

Spare RFID tag available separately - QC-3623



	Cat.	Qty 1+
Video Doorphone with 2.5" LCD	QC-3622	\$219.00
Spare RFID Tag	QC-3623	\$9.95

VIDEO DOOR PEEPHOLES

Video Door Peephole Viewer with Image Capture

See who is on the other side of your door at the press of a button with this compact video peephole viewer. Using an adaptor to connect a camera to the peephole lens, it displays video from the other side of your door on a clear 3" LCD screen. Each time the power button is pressed the viewer can also capture a snapshot of the camera image to a MicroSD card (available separately). By allowing you to see through the peephole without pressing your face to the door it is ideal for people who can't reach the original view lens and provides substantially improved vision over traditional optical viewers. Suitable for replacing most existing peepholes it can also be easily installed on most doors using the adjustable length adaptor tube. Image capture can also be triggered by adding either the knock or PIR sensor modules (available separately).

- Power Requirements: 2 x AA batteries (not included)
- Peephole tube diameter: 12mm
- Peephole tube length: 33 to 45mm
- Viewer dimensions: 158(H) x 87(W) x 32(D)mm



VIBRATION KNOCKING SENSOR TO SUIT VIDEO PEEPHOLE VIEWER

An add-on module to suit the QC-3735 video peephole viewer, the vibration sensor detects when there is a knock on the door and triggers the image capture in the viewer module. Fits neatly inside the expansion port of the viewer module and is powered by the main viewer batteries.

- Dimensions: 37(W) x 29(H) x 6(D)mm



Limited Stock

	Cat.	Qty 1+	Qty 2+	Qty 4+
Viewer with Image Capture	QC-3735	\$129.00	\$115.95	\$102.95
Vibration Knocking Sensor	QC-3737	\$44.95	\$40.45	\$35.90



Workbench sent to us by: Christopher
Jaycar Store: Gore Hill

Even having a bench 3.5 metres long, it still gets cluttered.

For more details, visit:
www.jaycar.com.au/workbench

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

ALARM COMPARISON GUIDE

Use our selection guide to help choose...

	Connection	Frequency	Zones	App Controlled	Page
LA-5280	Wireless	433MHz	8	-	427
LA-5290	Wireless	433MHz	8	✓	427
LA-5610	Wi-Fi	2.4GHz	8	✓	426
LA-5475	Wired	-	4	-	428
LA-5562	Wired	-	10	-	428
LA-5368	Wireless	433MHz	10	-	429

WIRELESS ALARM SYSTEMS

8 Zone Wi-Fi Alarm Kit with App

This 8 Zone Wi-Fi and cloud controlled alarm system is very easy to install, and can be controlled easily via the touch screen, using a wireless key-fob or by your Smartphone over a wireless network. Once dialled, the recipient can then listen in and even broadcast their voice over the control unit to scare away the trespasser, simultaneously triggering the built-in siren. The wireless PIR and Reed switches are mounted using 3M double sided tape. An ideal security system if you are renting or where it is difficult to run wiring through the premises. A Wi-Fi network is required.



- App controlled (suits Android and iOS®)
- Cloud enabled home-security system with full control from Smartphone
- Smart touch panel and easy to use
- Push notifications, Email alerts
- Dimensions: 163(W) x 132(L) x 30(D)mm



View live footage on a Smartphone
Smartphone not included

PACKAGE INCLUDES:

- 1 x Smart touch panel with rechargeable battery
- 1 x Wall/desk mount bracket with mounting hardware
- 1 x PIR motion sensor with magnetised mounting bracket & batteries
- 2 x Slim door/window sensors with batteries
- 1 x Wireless key fob remote with battery
- 1 x Mains adaptor



Accessories to suit 8 Zone Wi-Fi Alarm Kit LA-5610

720P WI-FI IP CAMERA FOR LA-5610 WI-FI ALARM - LA-5620

This is a 720p high definition wireless IP Camera that suits LA-5610 8 Zone Wi-Fi Alarm Kit with App. The camera features pan and tilt rotation with IR night vision LED's. It also supports mobile phone remote viewing and motion detection so that when the alarm is triggered it will send an alert to your phone and simultaneously brings up the camera footage live so that you can see what's happening!



LA-5620

- Dimensions: 125(H) x 100(W) x 95(L)mm

SPARE WIRELESS PIR SENSOR FOR LA-5610 WI-FI ALARM - LA-5614

Will alert wireless home alarm when movement is detected. It is ideal for wide spaces such as rooms, hallways, stairwells, sheds, front and back doors. Features power-saving with 3 minutes motion lockout after each detection to preserve battery life. It has 120 degree wide angle detection and features low battery warning. It comes with a PIR motion sensor, all-directional magnetic mounting bracket, which can be mounted using the supplied 3M double-sided tape or included mounting screws.



LA-5614

- Power: Includes 1 x CR123A Lithium battery
- Dimensions: 65(L) x 49(W) x 36(D)mm

SPARE WIRELESS REED SWITCH FOR LA-5610 WI-FI ALARM - LA-5616

Will alert the wireless home alarm when a door or window is opened. Ideal to use on windows and doors of your garages, cabinets, sheds, attics, side doors and freezers. It has magnetic sensor that can be mounted on right or left side of door or window. Features low battery warning. It comes with a window sensor and a double-sided tape.



LA-5616

- Power: 2 x AAA batteries included
- Dimensions: 75(L) x 20(W) x 20(D)mm

SPARE WIRELESS KEY FOB REMOTE FOR LA-5610 WI-FI ALARM - LA-5618

Compact remote control for the Wi-Fi Alarm. This 5 buttons remote features 3 modes and a socket function to turn the home appliance ON and OFF. It has an excellent transmission range. CR2032 Lithium battery is included.

- Power: 1 x CR2032 Lithium battery included
- Dimensions: 55(L) x 37(W) x 9(D)mm



LA-5618

WIRELESS EXTERNAL SIREN STROBE FOR LA-5610 WI-FI ALARM - LA-5619

Add an external siren to alert your neighbours and scare would-be thieves.

- Siren: 120dB
- Battery: Requires 4 x D size
- Dimensions: 260(L) x 250(W) x 50(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wi Fi Alarm Kit	LA-5610	\$309.00	\$269.00	\$239.00
Accessories to suit LA-5610 Wi-Fi Alarm	Cat.	Qty 1+	Qty 2+	Qty 4+
Wi-Fi IP Camera to Suit	LA-5620	\$129.00	\$115.95	\$102.95
Spare PIR - Wireless	LA-5614	\$39.95	\$35.90	\$31.90
Spare Reed Switch - Wireless	LA-5616	\$29.95	\$26.95	\$23.70
Spare Keyfob	LA-5618	\$29.95	\$26.95	\$23.70
Bell Box Siren NEW	LA-5619	\$99.95	\$89.95	\$79.95

WIRELESS ALARM SYSTEMS (CONTINUED)

8 Zone Wireless Alarm Kit with Remote Control

This wire-free alarm system is a high quality home alarm with user-friendly features that allow you to know your home or office is secure at all times. The system is controlled by a Smart Panel which gathers information from wireless sensors placed in various locations throughout your home. If the Smart Panel detects a security breach, the system's indicator lights and audible alarms are triggered.

- Special features include 8 security zones and 4 operation modes - Alarm/Alert/Home/Standby
- Quick and easy installation, eliminating the mess and expense of running wires
- Can be controlled from Smart Panel or Keyfob remote control (included)
- Back up battery and low battery notification
- 120dB+ internal siren
- Requires 2 x 9V and 2 x AAA alkaline batteries
- Dimensions: 150(L) x 100(H) x 30(D)mm

KIT INCLUDES:

- 1 x Smart Panel with tri-colour LCD display
- 1 x Motion sensor with mounting bracket
- 1 x Door/Window Sensor
- 1 x Keyfob remote control with battery
- 1 x Mains power adaptor
- Mounting hardware

Note: LA-5164 Operates on 2G only



	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wireless Alarm	LA-5280	\$129.00	\$115.95	\$102.95
Accessories to suit	Cat.	Qty 1+	Qty 2+	Qty 4+
Additional Wireless Reed Switch	LA-5147	\$32.95	\$29.45	\$26.45
Additional Wireless Keyfob Remote	LA-5149	\$29.95	\$26.95	\$23.95
Wireless Indoor 120dB Siren	LA-5142	\$39.95	\$35.90	\$31.90
Wireless PIR Sensor	LA-5146	\$39.95	\$35.90	\$31.90
Red Wireless Bellbox / Siren	LA-5159	\$99.95	\$89.95	\$79.95
Smart Control 2G GSM Dialler for LA-5280 Alarm Kit	LA-5164	\$149.00		

8 Zone Wireless Alarm Kit with Telephone Dialler

This stylish alarm panel with backlit LCD mounts to the wall and can be controlled via its keypad, supplied with a key-fob remote or control it from your Smartphone using the freely available 'Smart Halo' App. The included PIR motion sensor and two door/window sensors are battery powered and transmit wirelessly to the panel from up to 100m away (open area). Once the system detects a security breach, indicator lights will flash and the built-in 120dB siren will become active.

If you connect the panel to a telephone socket (2m cable included) the panel can automatically dial up to 8 phone numbers and play a pre-recorded message that you record yourself. After the message plays the recipient can disable the alarm, or communicate with the intruder or person in distress in the house using the microphone and speaker built into the panel.

Other features include 4 operating modes (Standby, Armed, Alert and Home) and battery backup. Easily expand the system with additional sensors and accessories available separately.

- Quick and easy set-up with your Smartphone app
- Intuitive DIY system
- Wireless design
- Built-in phone dialler
- Automatic emergency calls up to 8 pre-set telephone lines
- Sensitive microphone for callers from 30ft away

KIT INCLUDES:

- 1 x Smart panel with LCD and keypad
- 2 x door/window sensors with mounting hardware
- 1 x motion sensor with mounting hardware
- 1 x key fob remote control with battery



Specifications	LA-5290
Power source	Mains adaptor with 1.8m cable included
Backup power	Requires 1 x 9V battery
Sensor numbers	Unlimited
Operating frequency	433.92MHz +/-0.5MHz
Siren output	120dB (Duration-adjustable)
Sensor range	Up to 100m (open area)
Panel dimensions	190(L) x 115(H) x 35(D)mm

MOTION SENSOR - CAT LA-5146

- Power source: 1 x CR123A battery included
- PIR detection angle: 100 Degrees
- PIR detection range: 13m, 8m, 5m
- Power saving mode: Yes
- Dimensions: 65(H) x 60(D) x 52(W)mm

DOOR/WINDOW SENSOR - CAT LA-5147

- Mount using supplied double-sided tape or mounting screws
- Power source: 2 x AAA alkaline batteries included
- Dimensions: 85(H) x 42(W) x 14(D)mm

KEY FOB REMOTE CONTROL - CAT LA-5149

- Includes Panic button
- Power source: 1 x 12V alkaline battery included
- Dimensions: 60mm long



Not available in New Zealand

	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wireless Alarm Kit with Dialler	LA-5290	\$169.00	\$151.95	\$134.95
Accessories to suit	Cat.	Qty 1+	Qty 2+	Qty 4+
Additional Wireless Reed Switch	LA-5147	\$32.95	\$29.45	\$26.45
Additional Wireless Keyfob Remote	LA-5149	\$29.95	\$26.95	\$23.95
Wireless Indoor 120dB Siren	LA-5142	\$39.95	\$35.90	\$31.90
Wireless PIR Sensor	LA-5146	\$39.95	\$35.90	\$31.90
Red Wireless Bellbox / Siren	LA-5159	\$99.95	\$89.95	\$79.95
Smart Control 2G GSM Dialler for LA-5290	LA-5164	\$149.00		

WIRED ALARM SYSTEMS

4 Sector Alarm System with 2 Wire Technology

At last a user friendly 4 sector alarm system that is easy to set-up and provides exceptional levels of security. The system utilises two-wire technology to ensure simple set-up that the DIY enthusiasts will love. The control unit has a built-in keypad with status LEDs and a three modes of operation (Home, Out, Off). All sensors and sounders are line-protected so any attempt to interfere will sound the alarm. Set up multiple sectors which can be monitored or enabled independently (eg. upstairs/ downstairs or house & garage etc.)

- All system components (sensors, sirens) are connected to the control unit via a two-core non-polarised wire
- Low battery and tamper attempts will be indicated by the status LEDs
- Push button "Home", "Out", and "Off" mode operation or "Home" and "Out" modes are pre-programmed for user convenience
- Door chime function is available when system is not armed
- Short circuit tamper attacks to any sector sensor will trigger the alarm
- Individual sectors can be set to "Home-Bypass" or "Bypass"; for example, the upstairs detectors can be set to "Home-Bypass" at night
- Two PIR motion detectors can be connected to each PIR sensor circuit
- Can be expanded to have four PIRs as well as many magnetic contacts

KIT INCLUDES

- Control Unit
- 4 x Reed Switches
- 50m two-core flat cable
- Mount Hardware
- 2 x PIRs
- External Siren
- 240V adaptor

Specifications - PIR	LA-5476
Type	Dual Pyroelectric element with hemispherical lens and new two-wire technology
Housing	ABS
Adjustments	Pulse count (1, 2 or 4)
Test LED	Selectable (on/off)
Mounting Height	2 - 2.5m
Detection Range	Up to 15m
Dimensions	105(H) x 65(W) x 45(D)mm

Specifications - Door/Window Contact Detector	
Type	Magnetically - actuated switch
Housing	ABS
Dimensions	67(H) x 13(W) x 12(D)mm

Specifications - External Siren Unit	
Type	Piezo electronic external siren
Housing	ABS
Siren Output	110dB min. at 1m
Dimensions	180(H) x 113(W) x 47(D)mm

2 WIRE PIR TO SUIT LA-5475 - CAT LA-5476

This 2 wire PIR is a dual-element passive infrared intrusion detector for use in electronic security systems. It is compact, attractive and easy to install. It can be mounted indoors in a corner and is ideal for commercial, office and residential installation. The unit detection is via monitoring changes in infrared energy patterns.

Specifications - Control Unit	LA-5475
Type	Microprocessor based control unit with new two-wire technology
Housing	ABS
Sectors	4 Alarm Sectors (Expandable by connecting 2 PIRs to each of Sectors 3 and 4)
Entry/Exit Delay	15, 30, 45 seconds programmable
Siren Duration	1, 3, 10 minutes programmable
Siren/Strobe Outputs	12V
Dimensions	160(H) x 185(W) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Zone Alarm System	LA-5475	\$159.00	\$142.95	\$126.95
2 Wire PIR	LA-5476	\$29.95	\$26.90	\$23.70
PIR Lens - Lens Curtain	LA-5473	\$6.95	\$6.25	\$5.50

10 Zone Alarm Panel with LCD Controller

Fully configurable and programmable, this alarm kit gives you complete control over a professional system for home or business. Supplied with a central controller with LCD screen and the sensors you need to get a basic system up and running. You can then add sensors and functionality as required. Up to four remote keypads can be installed at up to 100m range and each can be named for easy identification. Each user can be programmed with any of four access level codes. Any zone can be programmed for security, PA, fire or 24 hour tamper and can be fully or partially armed. All the engineering codes and memory functions are protected by a non-volatile memory in case of power failure.

A LED keypad is also available for a more affordable option compared to LCD.

- 10 programmable zones
- 4 access levels
- Walk test mode
- Events memory in keypads
- Programmable timers for entry, exit & alarm duration

KIT INCLUDES

- 1 x Control panel
- 4 x PIR sensors
- 1 x Bellbox
- 1 x 12V 1.2Ah backup battery
- 1 x LCD remote controller
- 2 x Reed Switch
- 2 x 50m 6 core cable
- 1 x Internal siren

	Cat.	Qty 1+	Qty 2+	Qty 4+
10 Zone LCD Alarm Kit with 4 PIRs	LA-5562	\$399.00	\$359.00	\$319.00
PIR Sensors to suit LA-5562	LA-5564	\$29.95	\$26.90	\$23.70

THINGS YOU MAY ALSO NEED...

Large Alarm Sticker

For trucks, caravans, houses, offices and factories. Where a larger and more prominent deterrent sticker is required. Sticks to outside of window.

See page 416 for Video Surveillance deterrent stickers



	Cat.	Qty 1+	Qty 4+	Qty 8+
120 x 80mm	LA-5102	\$2.95	\$2.60	\$2.30

16VAC 1.25 Amp Alarm Supply

Designed for use with many house alarm panels. Supplied with three metres of cable for connection to alarm.

- Terminated with bare ends
- Dimensions: 55(W) x 90(H) x 60(D)mm



	Voltage(AC)	Current(A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
	16	1.25	N13057	MP-3021	\$24.95	\$22.35	\$19.70

SECURITY & SURVEILLANCE HOME ALARM SYSTEMS & STAND-ALONE ALARMS

WIRED ALARM SYSTEMS (CONTINUED)

10 Sector Intelligent Alarm System with Optional Dialler

Fully configurable and programmable, this professional alarm panel is the most advanced version of our 10 zone alarm controllers. Boasting an impressive range of features above our standard alarm systems, the LA-5368 alarm panel gives you everything required for advanced alarm installations. Standard features include support for up to four individual named keypads at a maximum range of 100m from the controller, four access levels of user codes with flexibility to program any zone as security, PA, fire or 24 hour tamper. Advanced features include more programming flexibility during installation and support for optional accessories; wireless sensor adaptor and GSM dialler. As this panel is designed with the flexibility to suit the requirements of many different installations, it is supplied as a control panel only.

Additional components, sensors and accessories are available to cater for specific applications.

Suitable accessories - sold separately:

- LED Keypad Cat. LA-5561
- LCD Keypad Cat. LA-5563
- GSM Dialler Module Cat. LA-5369
- Wireless Sensor Adaptor Cat. LA-5367
- 12V 1.3Ah Backup Battery Cat. SB-2480

- Suits standard PIR/Reed switches



WIRELESS SENSOR ADAPTOR FOR LA-5368

Connect this module to the LA-5368 Intelligent 10 Sector Alarm System to convert the wired zones into wireless to allow integration of remote control key fobs and wireless sensors to the alarm system. Ideal for businesses and residences with detached workshops or garages. Also works well for rooms, which are unable to be reached by cables. Unit is powered from the LA-5368 alarm panel. Sensors and key fobs sold separately.

- Dimensions: 150(H) x 100(W) x 30(D)mm
- Cat. LA-5367

GSM INTERFACE MODULE FOR LA-5368 ALARM SYSTEM

Don't leave your alarm screaming for attention when you can't hear it! This powerful unit interfaces with the LA-5368 8-sector alarm system to enable even more features. The unit allows the alarm system to receive commands and send notifications via SMS over the GSM network. It can store up to three mobile phone numbers, which are then notified if the alarm is triggered. A great feature is the remote arm/disarm function. It allows you to send an SMS (from an authorised number) to arm and/or disarm the panel remotely. No worrying about "Did I turn the alarm on?" when you head on holidays, or late night trips to the office to check it's secure. Simply send an SMS and it's done!

- Features tamper protection, and is powered by the LA-5368 alarm system.
- Cat. LA-5369



LA-5369

	Cat.	Qty 1+	Qty 2+	Qty 4+
10 Zone Intelligent Alarm System	LA-5368	\$79.95	\$71.95	\$63.95
Wireless Sensor Adaptor	LA-5367	\$34.95		
GSM Dialler Module	LA-5369	\$199.00		
Remote Control Key Fob	LA-5155	\$24.95	\$22.35	\$19.70
	Cat.	Qty 1+		
LED Keypad	LA-5561	\$29.95		
	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 1.3Ah Backup Battery	SB-2480	\$19.95	\$17.70	\$15.70

STAND-ALONE ALARMS

Motion Activated Alarm with Remote Control

Avoid messy wiring and protect your belongings with ease using our battery operated, motion activated alarm. The PIR sensor provides 120° coverage, triggering a 120dB+ alarm when breached. Use the remote control to arm or disarm the alarm. Flick the switch to chime and be notified as people enter or leave your room. It is a simple but effective deterrent against intruders.

- Remote control to arm or disarm the alarm unit
- A delay feature to give you time to leave the room
- 120dB+ alarm
- 120° coverage
- Easy to install mounting bracket
- The alarm unit requires 3 x AA batteries
- The remote control includes 1 x CR2032 battery
- PIR Sensor Dimension: approx. 114(L) x 61(W) x 29(D)mm
- Remote Dimension: approx. 64(L) x 32(W) x 7(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Motion Activated Alarm	LA-5217	\$34.95	\$31.45	\$27.90

Ceiling Mount Alarm with Remote Control

A dual purpose unit that can be used as a simple entry chime, or as a self contained alarm system. Installation takes just minutes and being battery operated, blackouts won't be a problem. It detects movement via a passive infra-red sensor and the ear piercing 110dB siren means that everyone will know if there is an intruder. A remote control is included so you won't have to climb a ladder to turn it on and off!

Specifications	LA-5215
Power	3 x AA batteries
Typical battery life	6 months
PIR Range	>3m
Siren Duration	30 seconds
Entry Delay	30 seconds
Remote Range	>6m



	Cat.	Qty 1+	Qty 2+	Qty 4+
Movement Activated	LA-5215	\$39.95	\$35.90	\$31.90

Pressure Activated Mat Alarm with Siren & Strobe

Easy to install and maintain, simply slide the pressure sensitive pad under your door mat to be notified of guests when they arrive at your front door or to surprise and deter would-be intruders. The alarm unit is battery operated and supplied with a mounting bracket. Flick the switch to chime when you are at home, flick it to alarm when you are away.

- Super loud 120dB+ siren
- Red strobe light
- Toggle switch, off/chime/alarm
- Requires 1 x 9V Alkaline Battery (not included)
- Lead length: 4m
- Mat dimension: approx. 488(L) x 331(W)mm
- Buzzer dimension (without bracket): approx. 97(L) x 54(W) x 33(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Pressure Alarm	LA-5218	\$34.95	\$31.45	\$27.90

Solar Powered Mini Magnetic Entry Alarms

Cost-effective and simple security measure. Use one or more as a stand-alone option or as an addition to an existing electronic security setup. Simply peel the clear backing from the self-adhesive mount and position on the inside of a window - no tools required. The solar cell keeps the built-in Ni-MH battery charged & if triggered, the very loud alarm sounds. Suitable for windows, French doors, sliding glass doors and pane glass doors.

- Warning sticker included
- No wiring
- Never needs batteries
- Self-adhesive
- Dimensions: 70(W) x 82(H) x 8(D)mm

Fits on inside of windows



	Cat.	Qty 1+
Magnetic Entry Alarm	LA-5005	\$4.95

SECURITY & SURVEILLANCE ALARM SWITCHES & SENSORS

ALARM ACCESSORIES

Dual & Quad Element PIR Detectors

Reliable and effective dual and quad element PIR detectors for home or office security applications. Both units are compact, attractive and easy to install with the features to match. Each has a built-in automatic temperature compensation to help eliminate false triggers in certain environments. 110 degree convex honey comb hemispherical infrared lenses are used and each unit has an extremely low current draw at 8mA. Both feature a swivel bracket for quick position adjustment. This quad unit offers higher levels of detection than the dual element model.

- Detection type: Dual element low noise pyroelectric sensor
- LED indicator: Walk test enabled by internal link
- Tamper switch

Specifications	LA-5044
Operating voltage	9-15VDC
Current draw	8mA nominal at 12VDC
Range	12m max
Field of view	110 degrees max
Mounting height	1.5m-2.4m
Alarm output	NC, when cover on, 28VDC 0.1A
Warm up period	90 seconds
Pulse count	1, 2 and 4 pulses selectable
Dimensions	104(H) x 66(W) x 47(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Dual	LA-5044	\$34.95	\$31.45	\$27.90
Quad	LA-5046	\$39.95	\$35.95	\$31.95

Intelligent Shock Sensor

This vibration/shock sensor has an intelligent microprocessor. The sensitivity is automatically set in Learn Mode by the level of a recognised impact made to the protected area. The number of impacts i.e. pulse count required to generate an alarm is determined by the number of the recognised impacts made in Learn Mode. Fast and easy to install and can be mounted to wood, steel, glass, and concrete.

Specifications	LA-5073
Supply Voltage	9V - 16V DC
Current	Normal Mode: 16.5mA / Alarm: 15.8mA
Pulse Count	1 - 8 Programmed in Learn Mode
Latching Modes	Any, First to Alarm, Sequential
Sensitivity Settings	Automatic from Learn Mode Impact
Indicator	Two colour LED
Dimensions	27(L) x 22(W) x 87(H)mm



	Cat.	Qty 1+
12V Intelligent Pulse	LA-5073	\$9.95

Alarm Relay Module 2 x 15A

When it comes to large alarm installations, there is often a requirement to have several sirens and strobe lights. In order to do this safely, the best way is to use an isolated relay module. This enables you to supply an external power source so as not to overload the power supply on the alarm panel and switch high currents to multiple sirens and strobe lights.

- 15A Switching current
- Easy connection via wire terminals
- NO and NC contacts
- Isolated to protect the alarm panel
- Relay coil protection for spike free operation



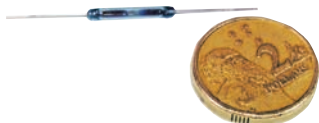
	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5558	\$24.95	\$22.45	\$19.95

REED SWITCH MAGNET ASSEMBLIES

NC Reed Switch*

Ideal for burglar alarms. *Normally open, but closed when near magnet (see note below).

Specifications	SM-1002
Total length	44mm
Glass length	16mm
Contact rating	10W
Switching voltage	200VDC (max)
Switching current	0.5A (max)
Carrying current	1.0A (max)



	Cat.	Qty 1+	Qty 10+	Qty 25+
Reed Switch	SM-1002	\$1.95	\$1.75	\$1.55

NC Reed Switch & Magnet

These are used to secure an alarm circuit on a door or window. Sold as a pair, one has a magnet inside, the other a reed switch. They have powerful magnets, with self adhesive or screw mount. Screw terminating. Size same as LA-5070. Contacts open when magnets are apart and closed when together.

TECH TALK!

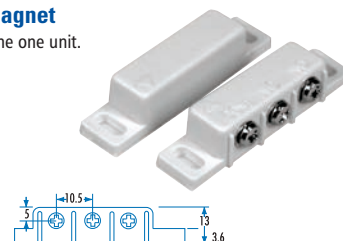
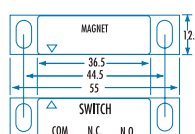
Normally CLOSED (NC) per pair.
Burglar Alarm Industry Standard



	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA-5072	\$4.95	\$4.45	\$3.90

NO & NC Reed Switch & Magnet

You have both types of contacts on the one unit. Normally Open (NO) and Normally Closed (NC) per pair. Temperature: -40°C to 80°C



	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA-5070	\$5.95	\$5.25	\$4.75

Flush Mount Reed Switch & Magnet Sets

Just drill a recess in your door or window and the magnet flush mounts to be "invisible". The reed switch segment is similarly mounted into the door frame or window frame & wired into your system.

Available in two versions to suit timber or metal frames with both versions normally closed contact.

Normally CLOSED (NC) per pair.

TAPERED VERSION TO SUIT TIMBER FRAMES

- Dimensions: 31(L) x 9(Dia)mm
- Surface Diameter: 19mm

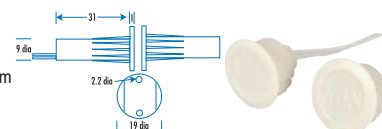
Cat. LA-5075



TOOTHED VERSION TO SUIT METAL FRAMES

- Dimensions: 19(L) x 19(Dia)mm
- Surface Diameter: 24mm

Cat. LA-5076



	Cat.	Qty 1+	Qty 4+	Qty 8+
For Timber Frame	LA-5075	\$4.95	\$4.45	\$3.90
For Metal Frame	LA-5076	\$5.95	\$5.25	\$4.75

NC Miniature Reed Switch & Magnet

Absolutely tiny, these encapsulated reed/magnet switches with leads are ideal for home and car security. Their size should make them extremely easy to conceal so that potential thieves are less likely to disable them. Made from moulded plastic.

- White in colour.
- Supplied with 300mm lead
- Dimensions: 33(L) x 8(W) x 8.5(D)mm
- Width including mounting tab: 15mm
- Hole spacing: 18mm
- Wire lead length: 300mm



Normally CLOSED (NC) per pair.

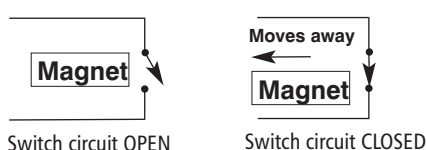
	Cat.	Qty 1+	Qty 4+	Qty 8+
Mini Reed Switch	LA-5074	\$6.95	\$6.25	\$5.50

TECH TALK!

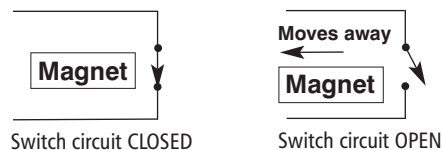
NORMALLY CLOSED.

This is when the switch contacts are touching in the presence of a switching magnet. The contacts OPEN when the magnet is removed. This is the most common system in alarm circuits.

NORMALLY OPEN CIRCUIT



NORMALLY CLOSED CIRCUIT



ALARM STROBES

Blue 12V Siren/Strobe

A combined siren and LED strobe for alarm systems. It has 120dB output with low power consumption.

- Output: 120dB
- Operating voltage: 12VDC
- Dimensions: 120(L) x 72(W) x 42(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5306	\$16.95	\$15.25	\$13.55

TECH TALK!

AIRCRAFT OWNERS/OPERATORS

If you operate mobile equipment on the aircraft side of an airport you must fit an amber flashing light on such equipment.

Save yourself a fine & wire an amber unit to your vehicle. All units are 12V powered. Simply wire across ignition circuit so that strobe automatically comes on when vehicle is started.

Mini Size - LED

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

- 12VDC operation.
- Measures: 70(Dia) x 45(H)mm



↑	Colour	Cat.	Qty 1+	Qty 4+	Qty 8+
	Blue	LA-5326	\$19.95	\$17.70	\$15.70
	Red	LA-5327	\$19.95	\$17.70	\$15.70
	Amber	LA-5328	\$19.95	\$17.70	\$15.70

ALARM SIRENS

Small 'Tweetie Pie' Siren

This incredible little piezo screamer emits a 116dB wail. It sounds like a very loud canary. The sound at close range is almost unbearable! Ideal for any compact high noise alarm application

- Current 200mA max
- Measures 57(L) x 33(H) mm - less bracket
- Operating voltage: 12VDC



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5255	\$19.95	\$17.95	\$15.95

Large 'Tweetie Pie' Siren

This piezo screamer is the original Tweetie Pie's big brother. It is ideal if space is not too much of a problem, but it's still far smaller than all our other sirens. This screamer is louder than the smaller Tweetie Pie, it's 119dB and draws only 250mA.

- Colour is black
- Measures 90(L) x 62(W) x 70(H)mm incl mounting bracket
- Operating voltage: 12VDC



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5254	\$24.95	\$22.35	\$19.70

Piezo Siren

Black in colour, supplied with mounting bracket and connecting cable.

- Height 100mm (from mounting bracket to top)
- Length 80mm, 80mm diameter.
- Operating voltage: 12VDC
- Resonant Freq: 3kHz
- Sound Output: 120dB
- Current Drain: 300mA.



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5258	\$24.95	\$22.35	\$19.70

Indoor Piezo Siren

This unit is very popular for indoor use with house alarms. It is dustproof & waterproof.

- Voltage range: 7.5 to 15V
- Current (approx): 200mA @12V
- Output: 100-105dB @ 1m
- Measures: 85(Base) x 42(H)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5256	\$9.95	\$8.75	\$7.75

Plastic Siren Cover

RUSTPROOF & UV STABILISED - Remains attractive in any environment. Will accept 5" siren, has 3 holes drilled for mounting strobe, and bracket for mounting a tamper switch, which is supplied.

- 5 year warranty for UV protection
- Measures approx 175 x 155mm at back 125 x 125mm at front
- Depth 145mm
- White in colour
- Includes tamper switch



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5112	\$24.95	\$22.35	\$19.70

5" Horn Speaker

Fully weatherproof. Unique voice coil construction ensures high dependability on full drive.

- Suitable for PA, intercom, security systems, etc.
- 10 watt - 8 ohm.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3180	\$16.95	\$14.95	\$13.35

5" x 8" Horn Speaker

This attractive unit in high impact white plastic features stainless steel hinge bolts. The special bracket enables maximum flexibility in mounting. Ideal for any outdoor application including marine.

- Rated at 30 watts power handling
- 8 ohm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3190	\$39.95	\$35.90	\$31.90

Piezo 4 Tone Siren with Controller

A very loud 125dB siren, it has four different tones - police, ambulance, fire engine or truck air horn.

Connects to a 12VDC power source and select a tone with the controller. Sturdy moulded plastic construction with metal mounting bracket.

- 125dB
- 12VDC
- Size: 150(L) x 130(Dia)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5259	\$29.95	\$26.90	\$23.70

SECURITY & SURVEILLANCE DOORBELLS & ENTRY ANNOUNCERS

DOORBELLS

Wireless Doorbell

Install a doorbell without the mess of wires and drilling. This simple home wireless doorbell has 32 melodies to choose from and is completely wireless so all you need to do is secure the transmitter next to your door and place the receiver unit where it can be heard. It has an operating range of 50 metres in open air and is suitable for homes and office buildings.

- Easy to install at an affordable price
- 433MHz
- Requires 3 x AAA batteries



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell with 32 Melodies	LA-5018	\$19.95	\$17.95	\$15.95

Wireless Doorbell - 240VAC Plug

Simple plug and play in design. This compact sized doorbell receiver plugs into a power point and is not much bigger than a slim line power supply, so it fits on your powerboard or double wall socket without taking up too much space.

Once plugged in, the battery powered wireless doorbell button can transmit up to 100 metres chiming out one of the 32 selectable melodies.

- 433MHz
- Suitable for rental properties, apartments and small offices.



Plugs directly into any power point



	Cat.	Qty 1+	Qty 4+	Qty 8+
240VAC Plug-in Doorbell	LA-5029	\$24.95	\$22.35	\$19.70

Wireless MP3 Doorbell

A wireless doorbell that plays your very own favourite MP3 song or message, or one of 16 pre-loaded polyphonic sounds. To load your MP3 file simply connect the main receiver unit to your PC and use the supplied software to trim, save and upload the file. The sleek elegant design won't compromise your room's decor either. Supplied with USB cables, CD with MP3 trim software and user manuals.

- Readable tune format: MP3 file
- Built-in sound: 24 polyphonic sounds
- 433MHz
- Operating range: up to 100m
- 1 x 12V A23 battery for transmitter (included)
- 3 x 1.5V AA batteries for receiver (not included)



	Cat.	Qty 1+
MP3 Player Doorbell	LA-5024	\$29.95

High Sound Level Wireless Doorbell with Strobe for the Hearing Impaired

When this doorbell rings, the sound is accompanied by several bright flashes from the receiver's built in strobe light, which makes it much easier for a hearing impaired person to know that someone is at the door.

The sounder can be taken from room to room, or even used outdoors and will work up to 30 metres from the transmitter button. The melody can be set to one of seven different sounds and has two volume levels - medium and loud. The unit is supplied with a neck lanyard and mounting hardware for the transmitter button.

- Requires 4 x C cells, available separately
- 210mm long



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell With Light Strobe	LA-5002	\$54.95	\$49.45	\$43.90

Wireless Door Bell with Door / Window Sensor

A convenient way to add entry alerts to a home or a small business. Included is a wireless doorbell and a wireless window sensor. The doorbell button will trigger the doorbell to sound off one of 7 user selectable chime sounds. The window sensor, which is triggered by a reed switch, can be installed on a window (or door) and will trigger the chime when the window is closed or opened depending on how you choose to position the sensor. The doorbell can be left freestanding or mounted to a wall with the supplied mounting accessories. The doorbell button and window sensor can trigger different sounds so you know where entry has occurred. Overall, a totally wireless, hassle-free doorbell system.

- 7 unique doorbell sounds
- LED low battery indication



Specifications	LA-5055
Range	Up to 50m
Wireless speaker requires	3 x AA batteries (not included)
Doorbell button requires	1 x A23 battery (included)
Wireless window sensor requires	2 x AAA batteries (not included)
Doorbell dimensions	163(H) x 90(W) x 42(D)mm
Doorbell button dimensions	88(H) x 28(W) x 24(D)mm
Window/door sensor dimensions	87(H) x 39(W) x 25(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell with Door/Window Sensor	LA-5055	\$59.95	\$53.95	\$47.95

INTERCOMS

2 Station Wired Intercom

Either station can signal the other even when the system is off. It can be used as a room/baby monitoring system.

- Adjustable volume
- Call facility even when unit is off
- Hands-free communication on sub-station
- Requires a 9V battery or 240V plugpack use MP-3146
- Supplied with 20m of connecting cable and staples



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wired - Pair	AM-4310	\$29.95	\$26.90	\$23.70

2 Station Wireless FM Intercom

Plugs into a 240V power point and will send to another room, upstairs etc. Both units need to be on the same channel and on the same mains phase to communicate.

The intercom has a built-in monitor function so you can put one in a baby's room and listen from another location around the house. Additional units can be added to the system to provide a multi-point intercom system.

- Transmission through house wiring
- 2 Channels
- Power points used must be on same phase, ideally the same circuit



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wireless - Pair	AI-5500	\$74.95	\$67.50	\$59.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



DOOR & DRIVEWAY BEAMS

Indoor Commercial Grade Doorway Beam



A compact entry warning system is designed for use in shops, restaurants, doctors and dentist surgeries etc. to alert you to the entry of customers and visitors. The system consists of a send/receive unit which transmits an IR beam across the doorway onto a prismatic reflector mounted on the opposite side. The beam is reflected back to the receiver to complete the circuit. When a person walks through the beam, the circuit is interrupted and this causes the alarm to sound an audible warning. The warning buzzer can be mounted in any suitable location.

- Mains plugpack and mounting hardware included.
- Range 2 - 6 metres
- Power: 9VDC
- Adjustable alarm time and volume
- Transmitter/Receiver size 70(H) x 60(W) x 30(D)mm
- Reflector size: 65 x 53mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorway Beam	LA-5193	\$79.95	\$71.95	\$63.95

Counter to suit Doorway Beam LA-5193

Attach to our LA-5193 Door Beam units to easily measure the door entry count in your shop, factory or office. The 20m lead carries both the signal and power, allowing you to mount the counter in a convenient location away from the door entry. This product is a must have for the serious retailer to easily measure the store traffic to sales conversions in their store.

- Counts up to 9999
- Includes '+' and '-' and 'Reset' buttons
- Measures: 60(W) x 70(H) x 23(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Counter	LA-5197	\$49.95	\$44.95	\$39.95

Door Extension Buzzer to suit LA-5193

This neat and compact buzzer can be mounted anywhere and is recommended as an addition to our Door Security Beam with Reflector (LA-5193) as an extension alarm. The volume of the buzzer is adjustable and the sound output can be selected by a slide switch to Alarm, Off or Chime. The sounding time can also be adjusted from 3 to 30 seconds.

- Supplied with mounting hardware, a 10m lead and an adjustment screwdriver.



Specifications	LA-5188
Input voltage	9 - 15VDC
Consumption current	25mA Max
Ambient Temp	-20°C - 50°C (-4°F - 122°F)
Response time of buzzer	Chime: 1sec. Alarm: 30sec
Volume of Speaker	0 - Max (adjustable)
Alarm time	30 sec Max (adjustable)
Speaker output	Chime/Off/Alarm (selected by switch)

	Cat.	Qty 1+	Qty 4+	Qty 8+
Door Buzzer	LA-5188	\$34.95	\$31.45	\$27.90

Workbench sent to us by: Simon Jaycar Store: Aspley

- * Desktop laser cutter
- * Soldering station
- * Assorted tools (none in the correct location)
- * Texts from electronics, software and electrical engineering
- * Bins of components and projects under
- * Computer graveyard

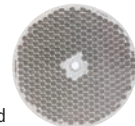
For more details, visit:
www.jaycar.com.au/workbench



Weatherproof Commercial Grade Infrared Beam

A heavy duty version of the common beam sensor used in doorway announcers, this commercial grade infrared beam is ideal for detecting when a person or object crosses a boundary or entrance way. Simply install the sensor module aligned with the reflector and the relay output will be triggered by any object which breaks the beam. The sensor module projects a modulated beam which resists interference from sunlight and can be used over a range up to 15m. Suitable for connection to existing lighting or security systems, and also compatible with the extension buzzer and counter add-on units for our standard doorway beam. The polycarbonate casing is weatherproof with an anti-fog sensor window making it suitable for use outdoors and in dusty or damp environments. LED indicators are included to assist with installation and provide a visual indication of the beam status.

- Adjustable vertical beam angle
- Narrow beam angle
- NC tamper switch output
- 12VDC plugpack required
- Terminal block and cable gland included



LA-5179

Specifications	LA-5179
Input voltage	12 to 250V AC or DC
Sensing range	0.25 to 15m
Enclosure rating	IP66
Relay output	NO / NC contact
Output contact rating	30VDC 1A
Sensor module dimensions	122(H) x 62(D) x 61(W)mm
Reflector dimensions	82(Dia) x 8(H)mm

Optional Accessories:
Please note these require hard-wiring to achieve compatibility, see website PDF.

- LA-5188 Door Beam Extension Buzzer*
- LA-5197 Door Beam Counter Module*

*Note: Accessories need to be hard wired



LA-5188



LA-5197



LA-5179



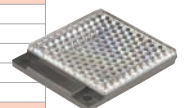
	Cat.	Qty 1+	Qty 4+	Qty 8+
Infrared Beam	LA-5179	\$119.00	\$106.95	\$94.95
Extension Buzzer	LA-5188	\$34.95	\$31.45	\$27.90
Counter Module	LA-5197	\$49.95	\$44.95	\$39.95

Solar Powered Wireless IR Annunciator Kit

With a wireless transmission range of up to 100m, this annunciator kit is a perfect, reliable solution for monitoring traffic in and out of driveways to shops, large commercial and rural properties. Attach the wireless IR detector at the entrance and be alerted of customers or guests as they enter and leave your premise. Installation is easy, the detector runs on 4 x AAA rechargeable batteries and is topped by the solar panel charger included. The wireless receiver can be wall mounted, placed over the counter, desk or wall mounted with no messy wiring connections in between.



Wireless IR detector	LA-5176
Includes	4 x AAA rechargeable batteries
Transmission Range	Up to 100m
Transmission frequency	433.92MHz
IR detection range	2 - 6m
Dimensions	71(L) x 64(W) x 43(D) mm
Annunciator	
Type	Microprocessor based control unit
Transmission frequency	433.92MHz
Requires	4 x 1.5V D size alkaline battery
Operating temperature	0°C - 40°C
Dimensions	143(L) x 110(W) x 50(D) mm
Solar Panel (without bracket)	
Dimensions	173(L) x 123(W) x 14(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Door or Driveway Annunciator	LA-5176	\$119.00	\$106.95	\$94.95

SECURITY & SURVEILLANCE ACCESS CONTROLLERS & SWITCHES

RADIO FREQUENCY ID DEVICES (RFID)

Waterproof Digital Keypad with RFID Access Control

A single door multifunction standalone access controller or a Wiegand output keypad/card reader suitable for an area requiring stricter access control such as a laboratory, warehouse, bank, or prison. The unit is suitable for mounting indoor or outdoor in harsh environments. It's housed in a sturdy IP65 vandal proof zinc alloy electroplated case that can be mounted to a wall with minimal drilling. Up to 2,000 users are supported in either a card, a 4-8 digit PIN, or a card + PIN option and the inbuilt card reader supports EM, 125kHz frequency cards. Red/Yellow/Green LEDs will indicate working status of the device. Protective features include anti-magnetic MOS output, output current lock, and short circuit protection. Full installation instructions/wiring diagrams featured.

- Waterproof
- Backlit keypad
- Adjustable door output time, alarm time and door open time
- Built in light dependent resistor for anti-tampering
- Built in buzzer

Specifications	LA-5353
Voltage	12VDC
Card Type	EM 125kHz
Card Reading	Distance: 3-6cm
Adjustable Door Relay time	99 seconds
Adjustable Alarm Time	0-3 minutes
Wiegand Interface	Wiegand 26 bit
Wiring Connection	Electric Lock, Exit Button, DORL, External Alarm
Dimensions	128(H) x 82(W) x 28(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
RFID Keypad	LA-5353	\$129.00	\$115.95	\$102.95

EM400X RFID TAGS

Key Fob

- Dimensions: 31(W) x 40(L) x 5(H)mm
- Cat. ZZ-8950



Wafer Card

- It is around the same size as a standard credit card.
- Cat. ZZ-8952



Lanyard Type

- Hangs on a lanyard or belt clip.
- Similar size to a credit card.
- Cat. ZZ-8953

	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyfob	ZZ-8950	\$5.95	\$5.35	\$4.75
Wafer Card	ZZ-8952	\$4.95	\$4.45	\$3.90
Lanyard Card	ZZ-8953	\$4.95	\$4.45	\$3.90

DOOR STRIKES

Fail Secure Narrow Electric Door Strike

Upgrade your conventional door locks to keyless entry electronic access. This electric door strike is suitable for narrower doors. A fail secure door strike will keep a door locked shut in the event of a power failure. Conversely, fail safe door strikes keep doors unlocked in the event of a power failure. This electric door strike complements our range of RFID controls for card or fingerprint access, or can also be paired with one of our intercoms or video doorphones to create a convenient remote door access system.

- Suitable for wood, aluminium and hollow metal door jambs
- Plate size: 160(L) x 25(W) x 28(H)mm
- Power: 12VDC, 450mA



	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA-5077	\$44.95	\$40.45	\$35.95

Standard Door Strike

Designed for use with cylindrical lock-sets (commonly used on wooden and aluminium doors).

- Size: 150(L) x 39.5 (W) x 28(H)mm
- Zinc alloy face plate



FAIL-SECURE TYPE

- 12VDC 450mA (on striking)
- Cat LA-5078

FAIL-SAFE TYPE

- 12VDC 200mA (in locked state)
- Cat LA-5081

See website for technical drawing



	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA-5078	\$49.95	\$44.90	\$39.90
Fail Safe Type	LA-5081	\$19.95		

DOOR EXIT SWITCH

Non-Contact Infrared Door Exit Switch

This infrared sensor can replace the old push button switch on automatic exit doors so that they will open with just a wave of your hand. The sensor will trigger an internal relay when your open hand comes within 100mm of the panel. No actual contact is required so there can be no transfer of contagions from one person to the next. The sensor is mounted on a stainless steel plate and has indicator LEDs built in to signal that the switch has been activated.

- 12VDC supply voltage
- 3A @ 30VDC contact rating
- 30mm sensor diameter
- 70 x 115mm plate dimensions



	Cat.	Qty 1+	Qty 2+	Qty 4+
Door Exit Switch	LA-5187	\$69.95	\$62.95	\$55.95

SECURITY LIGHTING

Solar Rechargeable Sensor Spotlight

An all-in-one light, which turns on automatically at night when the built-in PIR detects movement. Set the light to illuminate for a short duration or continuously until manually turned off. During the day sunlight charges the solar panel on top of the light, so its ready for use after the sun goes down. Easy to install, and feature an adjustable head to shine the light where you need it most.



Specifications	SL-3238
Lumens	250
Sensor	PIR
Motion detective distance	5m
Battery type	1200mAh 4.5V Ni-MH battery included
Dimensions	210(L) x 210(W) x 140(D)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Solar Rechargeable Spotlight	SL-3238	\$44.95	\$40.45	\$35.95

Sensor Spotlights

A simple method for adding a level of security in areas that may require costly or cumbersome cabling, or where no mains is available. When motion is detected, the light automatically turns on at a user selectable setting of 5 seconds, 20 seconds, or flashing for 20 seconds. Choose between battery powered or rechargeable models.

- Solar Light with PIR
- Tough ABS housing

SOLAR RECHARGEABLE SENSOR SPOTLIGHT

Choose this model if you have no requirement for the wireless announcer contained in SL-3236. Comes with the same solar panel and rechargeable sensor light with PIR and shares all the same functions.

Specifications	SL-3234
LED	Cree® XML
Lumens	500
Power	5x1.2V AAA battery pack included
Detection range	6-7m
Dimensions	240(H) x 110(W) x 150(D)mm



EMERGENCY LIGHT WITH PIR

An emergency lighting solution suitable for hallways, entry and exit points. The mains power supply charges the internal battery to ensure illumination is available during power outages. Also acts as a standard PIR spotlight to illuminate paths when motion is detected. Features the same selectable light settings and PIR.

Specifications	SL-3232
LED	Cree® XML
Lumens	500
Power	5 x 1.2V AAA battery pack included
Detection range	6-7m
Dimensions	240(H) x 110(W) x 150(D)mm



	Cat.	Qty 1+
Solar Rechargeable Sensor Spotlight	SL-3234	\$74.95
Emergency Light with PIR	SL-3232	\$24.95

REMOTE CONTROLS

Single Channel Keyfob Remote

Multi-purpose remote control keyfob for garage doors, lights automatic gates etc. It operates in the 27MHz band on an FM signal. The built-in microcontroller uses the latest technology allowing for easy setup and installation while providing maximum security and reliability.

- Requires 6V battery
- Battery status LED
- Up to 200m range

For wireless remote controls see page 509



	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyfob Remote	LR-8847	\$59.95	\$53.95	\$47.95

One Channel Hand Controller/Transmitter

For over 15 years now, one brand of remote control has dominated the Australian & New Zealand markets for remote controls for garage doors, motorised gates, lighting, alarms etc. This unit, called the FMT-301, is a 27MHz crystal controlled NBFM (Narrow band frequency modulated) device. It is coded with a 12-way DIP switch. There are over a million in service in Australasia. They are very reliable but they do wear out, down, go walkabout or simply get lost. We stock the most popular single channel unit. This will save ordering one through the garage door people who charge a fortune for replacements. This is the latest version of the most common operating transmitter in use in Australia/New Zealand today. It operates (always has) on 27.145MHz & requires a 216-type 9V cell. An alkaline battery is recommended but is not included. The controller is custom coded via a DIP-switch which is accessible from the battery cover.



- Weight: 72g excluding battery
- Dimensions: 96(H) x 55(W) x 20(D)mm

Suits garage doors, motorised gates etc.

	Cat.	Qty 1+	Qty 4+	Qty 8+
Handheld Remote	LR-8827	\$74.95	\$67.45	\$59.95

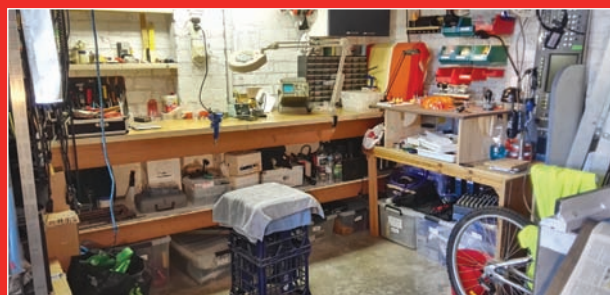
IR/RF Signal Tester

This device detects and confirms radio frequency and/or infrared emission from key fobs and remote controls and even signal strength. It helps to diagnose faults quickly and easily without the need to dismantle the fob, remote or vehicle. Features a magnetic backing to stick to the side of any ferrous surface making distance test of transmitter a possibility. Suitable for a wide variety of vehicle and electronic/electrical applications.

- Long battery life, auto shutdown when not in use in 1 mins
- Super bright LED indicator
- Powered by 9.0V battery (not included)
- Detects: infra-red or Radio Frequency
- RF ranges: 418MHz, 433-434MHz, and 868MHz
- Dimensions: 118(L) x 65(W) x 25(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2230	\$34.95	\$31.45	\$27.90



Workbench sent to us by: Jules Jaycar Store: Taren Point
The Man Cave!

This is where my battle with time is sometimes won, sometimes lost. This is where I can immerse myself in a project to make life easier. The sense of satisfaction I feel when a thought becomes a reality, is immeasurable. And what's more, it's my space.

For more details, visit:
www.jaycar.com.au/workbench

PANIC ALARMS

Personal Dual Alarm with LED Torch - 130dB

Deter thieves and attackers with its loud dual 130dB sirens and powerful independent torch function which will strobe when the alarm is activated. Simply pull the rip-cord to pull out the pin. Replace the pin to deactivate the alarm. Also includes a LED light. Fantastic for travellers.

- Traditional ripcord or key chain activation
- Includes 4 x LR44 batteries
- Dimensions: 105(L) x 28(W) x 15(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Personal Alarm	LA-5181	\$14.95	\$13.35	\$11.70

Dual Band Jogger's Personal Alarm - 120dB

This personal alarm is perfect for walking, running, cycling and other various night time exercises. It features an interchangeable wrist or arm band which is weatherproof, washable and extremely lightweight.



Simply pull the ring pin for a powerful 120dB siren to warn off thieves and attackers.

Specifications	LA-5219
Siren	120dB
Battery	1 x 12V A23 (Included)
Dimensions	73(H) x 39(W) x 17(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5219	\$29.95	\$26.95	\$23.70

Wall Mount Panic Alarm - 120dB

A multipurpose wall mounted panic alarm with pull cord activation. Can be used as a distress call for the elderly or a small scale evacuation alert in the home or office. Features a LED alarm/low battery indicator and a piercing 120dB siren which will ensure that it is heard by all. Includes mounting bracket and hardware.



Specifications	LA-5219
Siren	120dB
Battery	2 x AAA (Included)
Dimensions	100(H) x 89(W) x (Unit), 45(L)mm (Cord)

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5177	\$19.95	\$17.95	\$15.70

WIRELESS TRACKERS

Keyring Locator with App & Bluetooth® Technology for iPhone®

An electronic leash that will sound an alarm when your iPhone® leaves your vicinity. You can also use your iPhone® to find the lost keyring thanks to the duplex communication protocol. A handy app is available which will show on Google Maps® the last time the keyring and phone were connected.

- The app can control the alarm threshold distance, set the keyring to start beeping when a call is incoming, and switch the proximity alarm on/off.
- A brilliant little device that could save you a lot of trouble.

Specifications	XC-0365
Bluetooth® protocol	4.0
Search range	20m
Batteries	Includes 1 x CR2032 button cell
Battery life	3-6 months
Dimensions	60(L) x 35(W) x 10(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyring Locator	XC-0365	\$29.95	\$26.95	\$23.70



SECURITY & SURVEILLANCE WIRELESS TRACKING DEVICES

WIRELESS TRACKERS (CONTINUED)

Wireless Child Tracker - 4 Channel

This device can help keep a child safe by alerting the parent when they have wandered away by sounding an alarm on the receiver and transmitter. The transmitter is small and lightweight so it can be placed in the child's pocket, bag or by using the included lanyard. The receiver can be clipped onto a belt or handbag, features a vibration motor with mute option, and can support up to four transmitters (one supplied) so the parent can protect four children at the same time. Other features include panic button, and a search function with direction and distance indication so the parent can search for their child. The tags can also be attached to pets, mobile phones, and other valuables.

- Alarm: 96dB
- Alarm trigger distance:
Near: 10m (+/-5m) / Middle: 20m (+/-10m) / Far: 50m (+/-20m)
- Range: Up to 500m line-of-sight
- 2.4GHz digital RF technology
- Battery life at 8 hours per day / Transmitter: Up to 60 days / Receiver: Up to 30 days
- Batteries and lanyard included
- Dimensions: Receiver: 95(L) x 65(W) x 18(D)mm / Transmitter: 61(L) x 36(W) x 11(D)mm
- Additional Transmitter Tags available - use XC-0363



	Cat.	Qty 1 +
Wireless Child Tracker	XC-0362	\$29.95
Spare Transmitter Tag	XC-0363	\$19.95

Wireless Luggage Tracker

Track the location of a luggage bag by attaching the switched on slave unit to the bag prior to check-in. After landing at your destination simply turn on the master unit, press the search button and let the tracker find the bag. Distance LEDs gradually light up and the beeper/vibrations become rapid as you get closer to the bag while the left/right LEDs indicate the direction of your bag.

The luggage tracker doubles as an anti-theft device for a wallet, purse etc. by sounding an alarm on both units when moved further than a set distance away from each other. Just place the credit card sized slave unit into a wallet or purse, set the desired distance to either six or fifteen metres, and keep the master unit in a different spot such as in a pocket.

- Range: up to 120m (line of sight)
- Alarm with vibration
- Built-in belt clip
- Pack contains: master unit, slave unit, battery cover, batteries, luggage tag, lanyard strap and user manual
- Battery life on standby:
Master: 50 days (8 hrs a day)
Slave: 60 days (8 hrs a day)
- Dimensions:
Master: 52.8(L) x 39(W) x 13.2(D)mm
Slave: 80(L) x 50(W) x 2.8(D)mm



	Cat.	Qty 1 +
Luggage Tracker	XC-0360	\$29.95



Workbench sent to us by: Blair Jaycar Store: Strathpine

I live in a small apartment, so my work area is a lab in my office. It's not all work and no play in there, I can be found working on electronic hobbies outside of hours.

For more details, visit:
www.jaycar.com.au/workbench

GPS TRACKING DEVICES

3G GPS/GSM Vehicle Tracker

A GSM and GPS Tracking solution to locate and track the whereabouts of your vehicle in real time via the Internet on a computer or Smartphone. The device is easy to install with only 2 - 4 wires to connect. It works by sending the vehicle's GPS coordinates via the GSM network to the free online tracking service, which shows the location on GoogleMaps®. It can also SMS longitude and latitude coordinates to up to 3 mobile phones, as well as alerts when vehicle exits a pre-determined area or exceeds pre-set speed. Other features include an engine kill function to remotely disable the petrol pump, and movement sensor to extend battery life. An SOS/Panic button is also supplied which can send an SMS to the pre-programmed mobile phones. The built-in rechargeable Li-ion battery will keep the device functioning for up to 4 days when power is disconnected. There is no installation or on-going tracking charges. You only pay for the GSM sim card and service. Supplied with wiring loom, installation and operation manual.



Please Note: This tracker is compatible with 4G SIM cards, however it only operates on a 3G band.

- Real time upload current location to website
- Turn off car engine by Internet platform or SMS for Anti-theft
- Listening sound around tracker with silence by SMS or platform.
- No platform Service charge (Our free tracking platform)
- SIMCOM GSM module (Quad band)
- Built in shock sensor to control GPS on off to extend battery life
- Shock sensor can be used as car shock & movement alarm
- Website shows history tracking
- Platform uses free GoogleMaps
- Send alert when vehicle exits a restricted area
- Send alert when vehicle exceeds the restricted speed
- Power supply disconnect alarm



View live footage on a Smartphone
Smartphone not included



Due August 2016

Specifications	LA-9026
Data Usage	0.07KB every 30 second upload interval
GSM Frequency	850/900/1800/1900/2100MHz
GSM & GPS Antenna	Built-in
GPS Channels	32
Locate Accuracy	5 - 10m
GPS Start Time	1 sec (Hot start), 36 sec (Cold start)
Standby Current	1 - 2mA
Tracking Current	35mA
Operating Voltage	12 - 32VDC
Charge Voltage	5V
Battery	500mAh Li-ion
Dimensions	68(L) x 48(W) x 20(D)mm

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
Vehicle Tracker	LA-9026	\$299.00	\$269.00	\$239.00

3G GPS/GSM Personal Tracker

Locate and track the whereabouts of a person, personal belonging or vehicle in real time via your mobile phone. The tracker is rechargeable and compact so it can fit unobtrusively inside a pocket, handbag, luggage, vehicle, etc. To operate, simply insert a GSM Sim card (not included), charge and turn on. It then sends it's GPS coordinates via the GSM network to your mobile phone which can be viewed on GoogleMaps®. Latitude, longitude, speed, direction, date & time, and battery condition or a GoogleMaps® website link can be sent at any time by sending an SMS from your mobile phone to the tracker. You can also set it to SMS details once movement is detected, when the tracker is in a pre-determined area, over a preset speed, or when the battery is getting low. A microphone and speaker in the tracker also allows you to dial in to listen to sounds around the tracker, and one of two phones can be called from the tracker for two way communication. To top off the rich list of features is a SOS button that sends help information to up to three pre-set phone numbers. A USB cable and car charger is supplied to recharge the built-in rechargeable Li-ion battery, which will keep the tracker functioning for up to 3 days on standby.

- Listen to audio around tracker
- 60 second auto tracking report mode
- GPS interval power saving mode
- SMS locate
- Monitor function, calling function & SOS function
- Over Area alert (Geo-fence)
- Over speed alert
- Low battery alert



View live footage on a Smartphone
Smartphone not included



Due August 2016

Specifications	LA-9028
GSM Frequency	850/900/1800/1900/2100MHz
GSM & GPS Antenna	Built-in
GPS Channels	32
Locate Accuracy	10 - 20m
GPS Start Time	1 sec (Hot start), 36 sec (Cold start)
Standby Current	Tracking Current: 50mA
Charge Voltage	5V, 300mA
Battery	1000mAh Li-ion
Dimensions	61(L) x 42(W) x 11(D)mm

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
Personal Alarm	LA-9028	\$229.00	\$205.95	\$182.95

AUTO

4WD & Caravan Products	446
Air Compressors	451
Auto Globes & 4WD Spotlights	492
Auto Alarms & Accessories	510
Auto Audio Accessories	503
Auto Lighting/Globes	497
Auto Speakers & Accessories	503
Circuit Protection/Power	481
Event Recorders/Dash Cams	487
In-Car Entertainment	501
Power Connectors & Accessories	472
Phone/GPS Chargers/Accessories	297
Reversing Cameras & Kits	488

LIGHTING

Cabin & Caravan Lights	462
Downlights - LED	463
Eco-Lighting LED Lamps	461
Floodlights	466
Spotlights	460
Worklights	464

OUTDOORS

12V Camping Accessories	447
Cameras & Scopes	445
Caravan & Marine Power Packages	470
Marine Maintenance & Sound	512
Pest Control	450
Portable Power	468
Recreational Solar Power Packages	470
Solar Chargers	469
Thermometers - Desktop	456
Torches - LED	457
Trailer Lights & Plugs	500
Transceivers - UHF & VHF Marine	437
Weather Stations	453

Background image sent to us by Mark who shops at our Jaycar Alexandria store

"This is my garage work space where I restore cars. I buy all my electrical needs around the corner at Jaycar. I would like to print car parts."

UHF TRANSCEIVERS (CB RADIOS)

5W UHF Transceiver - 80 Channel High Powered

Remarkable range and clarity.

With a powerful 5W output you'll be able to communicate far beyond consumer grade models. For short range banter, you can switch to power-saving 1W output so you can recharge later rather than sooner.

Other features include 80 channels with CTCSS, channel scan, VOX and repeater functions.

Includes Li-Ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- Range: 3km/20km
- 80 channels
- LCD backlit display
- VOX function
- Detachable antenna
- Channel scan function
- Antenna: 130mm long
- 1W/5W switchable output power
- CTCSS sub channel calling
- Dual watch
- Repeater function
- Key lock function
- Auto power saver mode
- Dimensions (without antenna): 130(L) x 60(W) x 35(D)mm



THOUSANDS SOLD



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
UHF - Each, 5W	DC-1065	\$169.00	\$151.95	\$134.95
Cigarette Lighter Charger	DC-1099	\$17.95	\$15.95	\$14.35
Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
Leather Case	DC-1067	\$12.95	\$11.65	\$10.35

CB RADIO COMPARISON GUIDE

Use our selection guide to help choose...

	DC-1001	DC-1017	DC-1009	DC-1027	DC-1049	DC-1074	DC-1076	DC-1065	DC-1078
Max Output Power	0.5W	0.5W	0.5W	0.5W	2W	3W	3W	5W	5W
Range (line-of-sight)	3km	3km	3km	3km	10km	10km	10km	20km	20km
Rechargeable	-	-	✓	✓	✓	✓	✓	✓	✓
Pair	-	Pair	Pair	Pair	-	-	Pair	-	Pair
CTCSS	-	-	-	✓	✓	✓	✓	✓	✓
Waterproof (IP67)	-	-	-	-	-	-	-	✓	✓
VOX	-	-	-	✓	✓	-	-	✓	✓
Repeater Function	✓	✓	✓	✓	✓	-	-	✓	✓
Charging Dock	-	-	✓	✓	-	✓	✓	✓	✓
Supports 12V Car Charging	-	-	-	✓	✓	✓	✓	✓	✓
Supports Headset	-	-	-	✓	✓	✓	✓	✓	✓
Page	438	438	438	438	439	439	440	437	440

UHF TRANSCEIVERS (CB RADIOS) - 4 MODELS EACH TAILORED FOR SPECIFIC USE

All radios below will talk to each other (when on the same channel)

0.5W UHF Transceiver - 80 Channel

BASE MODEL 1/2 WATT, CAN BUY IN ODD QUANTITIES

Keeps you clearly in touch with the kids at up to 3km range. Perfect for camping, picnics in the bush, skiing and hiking trips, it also features an integrated LED torch so you can find your way home in the dark. Requires 3 x AAA batteries.

- Integrated Blue LED Torch
- Up to 3km range
- 80 channels
- Push to Talk (PTT) function
- Electronic volume control
- Scan channel, call tone and monitor functions
- Low battery alert
- Duplex function
- Dimensions: 122(H) x 54(W) x 35(D)mm



0.5W UHF Transceiver - 80 Channel - Rechargeable

ECONOMY RECHARGEABLE, 1/2 WATT, PAIR

Out in the bush and you need to read a map in the dark? No problem! Your CB has an LED torch built in to it. Naturally it does all the normal CB functions as well and includes desktop charging cradle, AC adaptor, two transceivers and batteries.

- Power output: 0.5W
- Up to 3km range
- Up to 30 hours battery life
- Charging time: 6 hours
- 80 channels
- PTT function
- Scan function
- Auto squelch
- Sold as a pair



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Each 0.5W	DC-1001	\$29.95	\$26.95	\$23.95

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair with Charger 0.5W	DC-1009	\$79.95	\$71.95	\$63.95

0.5W UHF CB Radio Twin Pack - 80 Channel

MADE FOR KIDS, 1/2 WATT, GREAT VALUE

Two pack of mini UHF CB radios with up to 3km range. Ideal for keeping in touch with the kids at campsites, picnics, skiing and hiking trips. They retain many of the features and build quality of more expensive units but come in a child friendly package. Also features a built-in LED torch to find your way in the dark.

- Up to 3km range
- 80 Channels
- Push to Talk (PTT) function
- Electronic volume control
- Scan channel, call tone and monitor functions
- Integrated Blue LED Torch
- Low battery alert
- Duplex range extender
- Requires 3 x AAA batteries per unit
- Dimensions: 55(W) x 110(H) x 35(D)mm

Supplied as a pair in red & blue



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair 0.5W	DC-1017	\$49.95	\$44.90	\$39.90

0.5W UHF Transceivers - 80 Channel - Pair - Rechargeable

FULL FEATURE RECHARGEABLE, 1/2 WATT, PAIR

Everything you need for mobile CB communications. 80 channel UHF CB radios complete with rechargeable batteries, dual charger cradle and a range of accessories. They have 0.5 watt output for up to 5km transmission range and CTCSS function. Ideal for bushwalking, camping, sports, etc.

- Sold as a pair
- No license required
- 80 channels and 38 sub-channels
- Babysitter and parent-monitor
- VOX function
- Auto power off
- Stop watch
- Repeater function
- Automatic squelch
- Battery level indicators
- Key lock function
- Key tone function
- Backlit LCD
- Supports external headset
- Supports external AC-DC charger



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair with Charger 0.5W	DC-1027	\$109.00	\$97.95	\$86.95
Spare Rechargeable Battery	DC-1029	\$14.95	\$13.35	\$11.70
Cigarette Lighter Charger	DC-1036	\$17.95	\$15.95	\$14.35
Mains Charger	DC-1034	\$17.95	\$15.95	\$14.35
Leather Pouch	DC-1018	\$6.95	\$6.25	\$5.50

UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

2 Watt UHF Transceiver with CTCSS - 80 Channel Advanced

With 2 watts of output power, this UHF transceiver is certainly no toy. This top quality unit will suit many professional and leisure activities with a range of up to 10km line-of-sight. You can save battery power by switching to the low setting (500mW) for local communications (such as around the campsite). It's loaded with all the features you would expect from an advanced system like CTCSS that reduces interference from other users on the same channel, 75 voice channels, plus it has a rechargeable Li-ion battery with a plug pack charger.

- CTCSS function
- Hi/Lo power output
- Dual watch/vox function
- Key lock/tone function
- Optional 12V charging (cable not included)
- Auto squelch function
- Low battery display
- Backlit LCD
- Roger tone
- Li-ion rechargeable battery
- Stop watch
- Dimensions: 120(L) x 57(W) x 35(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Transceiver - Each, 2W	DC-1049	\$89.95	\$80.95	\$71.95
In-dash Car Charger	DC-1035	\$17.95	\$15.95	\$14.35
Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
Spare Battery	DC-1048	\$29.95	\$26.90	\$23.70
Leather Pouch	DC-1042	\$9.95	\$8.75	\$7.75

3W Waterproof Floating UHF Transceiver - 80 Channel

A robust floating transceiver suitable for professional or recreational use. A 10km line-of-sight range will allow you to keep in contact over large distances and IP67 rating means it can be submerged in up to 1m of water. Battery power can be conserved by switching to the low setting (500mW) for local communications around base camp. Includes a rechargeable Li-ion battery with a charging cradle and power supply. There are 75 voice channels and the CTCSS system reduces interference from users on other channels. Great for camping, off-road race crews, roadies, people who work at large sporting venues, and more.

- IP67 rated
- CTCSS function
- Hi/Lo power output
- Auto squelch function
- Low battery display
- Backlit LCD
- Roger tone
- Li-ion rechargeable battery
- Stop watch
- Dimensions: 120(L) x 57(W) x 35(H)mm

It Floats



	Cat.	Qty 1+	Qty 5+	Qty 10+
UHF - Each, 3W	DC-1074	\$129.00	\$115.95	\$102.95
Spare Battery	DC-1075	\$24.95	\$22.45	\$19.95
In-Car Charger	DC-1036	\$17.95	\$15.95	\$14.35

RELATED PRODUCTS

VOX Headset & Microphone for Transceivers

Handy VOX headset for use with a variety of our transceivers. Features a clip for securing to your clothes.

Suitable for the following transceivers:
DC-1021, DC-1027, DC-1049,
DC-1065 & DC-1096

- Standard 3.5mm plug.
- Cable length: 1m

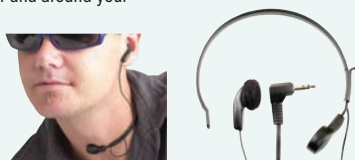


	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-1056	\$14.95	\$13.35	\$11.70

Hands Free Earpiece with Throat Microphone

The hands free fits snugly in your ear and around your neck blocking out virtually all background noise.

- Cable: 104.5cm long cable
- Suits DC-1021/27/49



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-1039	\$22.95	\$20.35	\$18.35

Air Tube Headset for Handheld CB Radios

Ideal for people who use CB radios for extended periods of time because the air tube is much lighter and more comfortable than standard earpiece headsets. The collar clip secures the tube without inhibiting head movement and the in-line microphone features a push to talk button and mounting clip.

Compatible with handheld UHF CB radios which feature a 3.5mm combination microphone and earpiece plug including many from the range of Digitech handheld radios.

- Compatible Digitech Radios: DC-1021, DC-1027, DC-1049, DC-1065
- Length from CB plug to microphone: 900mm
- Length from microphone to collar clasp: 550mm
- Air Tube Length: 250mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-1031	\$39.95	\$35.90	\$31.90

Workbench sent to us by: David Jaycar Store: Aspley

No room to move!



For more details, visit:
www.jaycar.com.au/workbench



UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

3W UHF CB Radio Tradies Pack

Keep in touch at the worksite, large venue or on the convoy with this handy tradies pack. The floating transceivers included in this pack are suitable for professional or recreational use. A 10km line-of-sight range will allow you to keep in contact over large distances and IP67 rating means it can be submersed in up to 1m of water - and they float! Includes voice operated speaker/mics so you can talk hand's free. Charge on the go with the in-car charger.

Pack includes:

- 2 x 3W Waterproof Floating UHF Transceiver with 80 channels
- 2 x Mini Speakers/Microphones
- 2 x 12V cigarette lighter chargers
- 2 x VOX Headset and Microphone for Transceivers
- 1 x Dual charging cradle with mains supply
- Transceiver dimensions: 400(L) x 280(W) x 100(H)mm



Either of these packs are great for large building sites



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Tradies Pack, 3W	DC-1076	\$329.00	\$299.00	\$265.00

5W UHF CB Radio Tradies Pack

This handy case has everything you need to keep in touch at the worksite, office or on the road trip. 2 x 5W UHF transceivers, 2 x mini speaker/microphones, 2 x VOX headset/microphones, charging dock with mains adaptor and 12V power adaptors for in-car charging. Up to 20km line-of-sight range will allow you to keep in contact over large distances. The compact speaker microphones are ideally suitable for handheld transceivers with a speaker/mic jack. Handy VOX headsets with clip are also included if you need to keep both hands free. Great for camping, off-road race crews, roadies, people who work at large sporting venues, and more.

Pack includes:

- 2 x 5W UHF transceiver with 80 channels
- 2 x mini speakers/microphones
- 2 x 12V cigarette lighter charger leads (charge via headphone socket)
- 2 x VOX headset and microphone for transceivers
- 1 x dock with mains plugpack to charge two transceivers at the same time
- Case dimensions: 400 x 280 x 100mm



See our individual 5W handheld on page 437



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-1078	\$449.00	\$399.00	\$349.00

BOOK

Wireless at War Book - by Peter Jensen

The existence of electromagnetic radiation was first demonstrated in 1885 by Heinrich Hertz. After 1900 the potential advantages of wireless technology to the battlefield and for marine warfare became known, interested industrial organisations multiplied, keeping pace with the growth of the armies and navies. This book features 250 photos and diagrams and tracks the use of wireless technology in war from its inception all the way up to more recent conflicts in Afghanistan. Special reference is made to military communications used by the Australian Army, especially WWII and Vietnam. Whilst overseas references are made, this book is basically about radio technology and the Australian army. It was written by an Australian radio historian. A great read.



Softcover 352 pages. 225 x 150mm

↑	Cat.	Qty 1+
	BM-2490	\$29.95

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar

Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.



OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references. For application details see our Store Managers.



Workbench sent to us by: Joel Jaycar Store: Underwood

I built a man cave for all my tools and tinkering. I think I am about half way. It needs another bench. A 3D printer would be a great addition :)

For more details, visit:
www.jaycar.com.au/workbench



UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

5W UHF CB Radio - 80 Channels Compact - In-Dash

Fixed installation UHF transceivers in your vehicle are always a better option as you get range and power. You'll always be connected to a higher gain antenna with a ground plane and you can always get more transmitting power as you aren't restricted to small batteries that hand-held units typically have. All the usual UHF CB features, such as channel scan, repeater access and CTCSS. Includes handheld microphone with push to talk and channel change buttons. Ideal as a vehicle unit for 4WD etc.

- 80 channel
- Signal strength meter
- Up to 20km range line-of-sight
- Compact size for under-dash mounting
- Mic and lead included
- Mounting bracket included



DC-1120



CB RADIO AND ANTENNA BUNDLE - DC-1121

CB Radio and antenna bundle that combines our Compact 5W UHF CB Radio (DC-1120) and UHF 5dBi Fibreglass Antenna with 5m Cable (DC-3078)

PLASTIC MICROPHONE BRACKET

Microphone bracket clip to suit DC-1120 UHF handset. The back plate features mounting holes for screwing it in and is flat enough to use double sided adhesive tape. Stainless steel mounting screws included.

- Dimensions: 33mm x 36mm

DC-3080



Replacement microphone not stocked in all stores but can be ordered

↑	Cat.	Qty 1+	Qty 5+	Qty 10+
5W UHF Radio	DC-1120	\$199.00	\$178.95	\$158.95
5W UHF Radio + Antenna	DC-1121	\$259.00		
Mic Bracket Clip	DC-3080	\$5.95	\$5.25	\$4.75
Replacement Microphone	DC-1124	\$24.95	\$22.50	\$19.95

5W UHF CB Radio - 80 Channels Compact

This unit allows you to remotely locate the transmit/receive base unit and only have the microphone itself within easy reach. All functions for the unit are on the face of the microphone, there are no controls on the power unit at all. The microphone has a speaker in it, which enables you to completely control the transceiver from this unit.



- 100 User Programmable RX Channels
- Group Scan
- 3 LCD and 1 key backlight colour
- Signal strength and power meter
- Call tone melody
- Key and ringer tone selection
- CTCSS(38) & DCS(104) status codes
- Channel / Memory Scan
- Stop watch function
- Volume adjustment

Specifications	DC-1122
Channels	80
Power Output	5W
Voltage	12-24VDC
Range	Up to 18km
Dimensions	127(W) x 100(L) x 25(H)mm (Base Unit) 102(H) x 57(W) x 27(D)mm (Microphone)



DC-1122



DC-3078



Replacement microphone not stocked in all stores but can be ordered



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
5W UHF Radio	DC-1122	\$249.00	\$225.00	\$198.95
Antenna to suit	DC-3078	\$99.95	\$89.95	\$79.95
Mic Bracket Clip	DC-3080	\$5.95	\$5.25	\$4.75
Replacement Microphone	DC-1125	\$79.95	\$71.95	\$63.95

MINI COMMS SPEAKERS

Rectangular Communications Speaker

For use with CB's and other communication devices, this mono speaker can be mounted in any position for enhanced listening of incoming transmissions. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting. It incorporates an 8 ohms rectangular speaker and can handle 5 watts max.

Specifications	AS-3182
Frequency response	100Hz - 15kHz
Dimensions	130(W) x 80(H) x 59(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	AS-3182	\$21.95	\$19.75	\$17.55

For our full range of Smartphone & MP3 Player Speakers see pages 309 to 310

Mini Communications Speaker

For use with CB's and other communication devices, this mono speaker is small and can be mounted in any position for ease of use. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting. It incorporates an 8 ohms round speaker and can handle 5 Watts Max.

Specifications	AS-3185
Frequency response	100Hz - 15kHz
Dimensions	85(W) x 65(H) x 55(D)mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	AS-3185	\$19.95	\$17.70	\$15.70

Naval Style Comms Speaker with Gymbal Mount

This small but powerful unit delivers clear voice from either VHF, 27MHz or even HF communications receivers. It features a no-nonsense naval style in a light grey. It is very close to waterproof, in that the speaker cone is Mylar, the bezel is gasketed and the cord entry is IP65.

Specifications	AS-3186
Power handling	2.25WRMS
Power Max	5W
Impedance	80hm
Freq range	320Hz - 4,500kHz
Sensitivity	88dB/m
Dimensions	66(L) x 66(W) x 55(H)mm
Weight	185g
2.2m cable terminated to a 3.5 plug	
Bezel dimensions	65mm square, 55 deep



↑	Cat.	Qty 1+
2.25WRMS Each	AS-3186	\$19.95

4" Communication Speaker

A powerful waterproof speaker to connect to CB radios and other communication devices for clearer audio reproduction. Features a 4" (102mm) Mylar speaker, right angle 3.5mm plug on a 1.2 metre cable & includes a mounting bracket.

Specifications	AS-3187
Power handling	10WRMS
Power Max	15W
Impedance	80hm
Freq range	300Hz - 10kHz
Sensitivity	88dB/m
Dimensions	108(L) x 108(W) x 65(D)mm



↑	Cat.	Qty 1+
10WRMS	AS-3187	\$24.95

UHF ANTENNAS & ACCESSORIES

UHF Premium Antenna Kits

Robust and durable antennas for UHF communications. Independent ground plane to ensure stable radiation pattern in all mobile mounting applications. Two models to choose from. Each feature 5m pre-terminated cables with FME socket and PL259 adaptor so no tools are required.

4DBI FLEXIBLE UHF ANTENNA

- 407mm long
 - Includes 'L' guard mount bracket
- DC-3073

Specifications	DC-3071
Frequency	476.42 - 477.40MHz
Gain	3dB, 6.5dB* (* Reference to 1/4 waves mounted on centre of Vehicle Roof)
VSWR	<1.5:1
Impedance	50 Ohms
Polarization	Vertical
Radiation	Omni Directional
Cable	LL195 Low loss, 5m length
Termination	FME socket + UHF plug to FME plug adaptor
Base Materials	Stainless Steel Brass
Antenna Length	
3dBi	450mm
6dBi	900mm

PREMIUM UHF ANTENNA WITH 3DBI & 6.5DBI ANTENNAS

- Features stainless spring & elevated feed base
 - 450mm (3dBi) and 900mm (6.5dBi) long
 - Includes 'L' guard mount bracket and bull bar bracket
- DC-3071.

Specifications	DC-3073
Frequency	476 - 477MHz
Gain	4dBi
Input impedance	50 Ohms
Radiation pattern	Omni directional
Antenna materials	Brass & flexible polypropylene radome
Antenna weight	190g
Cable	LL195 Low loss, 5m Length
Termination	FME socket + UHF plug to FME plug adaptor
Antenna length	407mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4dBi	DC-3073	\$69.95	\$62.95	\$55.95
3dBi & 6.5dBi	DC-3071	\$129.00	\$115.95	\$102.95

UHF 5dBi Fibreglass Antenna with 5m Cable

Another addition to our antenna range. This model is suitable for cars and trucks using UHF transceivers. The antenna is fibreglass and it features a tough flexible spring base to absorb and deaden the vibrations associated with driving.

Specifications	DC-3078
Frequency	477MHz for UHF
Cable connector	FME
Gain	5dBi
Length	630mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	DC-3078	\$99.95	\$89.95	\$79.95

Trunk Groove Bracket - Z Shape

Polished stainless steel bracket in a Z shape to mount an antenna on the vehicle boot or bonnet.

Specifications	DC-3075
Antenna mounting	16mm
Mounting holes	4 x 4.6mm
Cable entry	5.5mm
Back plate	52(W) x 57(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3075	\$9.95	\$8.95	\$7.95

Right Angle Bull Bar Bracket Stainless Steel

This stainless steel bracket will allow you to attach an antenna to your vehicles bull bar to improve reception to your UHF radio. For those who frequently work or travel to remote areas this is ideal.

- Dimensions of L bracket: 56 x 57 x 54mm
- Length of U brackets 72mm
- Material: 304 Grade Stainless steel



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3077	\$14.95	\$13.35	\$11.70

UHF Base

Constructed from UV stable polypropylene and a 5/16", 26TPI plated brass bolt.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3062	\$12.95	\$11.35	\$10.35



Universal CB Base

Standard 5/16" 26TPI low profile base complete with solder lugs for cable connection.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3060	\$10.95	\$9.75	\$8.75



27MHz Helical Whip

High performance helical fibreglass mobile whips designed and manufactured in Australia to suit our rugged conditions. All with standard 5/16" 26TPI thread.



	Cat.	Qty 1+	Qty 4+	Qty 10+
900mm	DC-2030	\$16.75	\$14.95	\$13.35

Universal Bullbar Mounting Brackets

These brackets are designed to mount driving lights, spotlights, UHF antenna's and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented.

Ideal for use with our range of 12VDC LED lights SL-3914, SL-3912, SL-3916, SL-3918, SL-3920 and SL-3922.

- Can be adapted to mount driving lights

3 sizes available to fit various diameter frames:

		Cat.	Qty 1+	Qty 2+	Qty 6+
SL-3925					
SL-3927					
SL-3929					
	Diameter				
	25-38mm Bullbar Mount	SL-3925	\$14.95	\$13.35	\$11.70
	40-52mm Bullbar Mount	SL-3927	\$14.95	\$13.35	\$11.70
	70-80mm Bullbar Mount	SL-3929	\$19.95	\$17.70	\$15.70

RELATED PRODUCTS

FROM
\$29.95
WH-5521



HEATSHRINK PACK

P205

FROM
\$1.85
HP-1200



CABLE TIES

P208

FROM
\$9.95
HP-1235



DUNE TUBE

P208

FROM
\$29.95
NA-2829



RESCUE TAPE

P206

VHF TRANSCEIVERS

3W VHF Marine Waterproof Floating Transceiver

A VHF radio on a boat is a must have. You never know when your boat may be rendered inoperative by engine malfunction, a storm, rogue waves, or a monster from the deep. This transceiver will give you coverage of all international VHF marine channels so you can call for help when needed or communicate with other boats. This unit is fully submersible so if you find your boat has been capsized and you are stuck under the hull you know you'll be still be able to call for help. Includes a Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- IP67 rated
- 1/3W Switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode
- Dimensions: 130(L) x 60(W) x 35(D)mm

It Floats



TECH TALK!

Don't forget to wash the unit in fresh water if it goes for a swim!



	Cat.	Qty 1+	Qty 5+	Qty 10+
3W VHF Marine - Each	DC-1093	\$129.00	\$115.95	\$102.95
Spare Battery Pack	DC-1075	\$24.95	\$22.45	\$19.95
In-Car Charger	DC-1036	\$17.95	\$15.95	\$14.35

5W VHF Marine Radio Transceiver

This powerful 5W hand-held transceiver gives you coverage of all international VHF marine channels. Though not completely submersible, the housing is compact and splash proof, specially designed to endure the usual rigours of boating. The antenna is detachable so units can be connected to a larger antenna mounted on a boat. Includes Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.



- 1W/5W switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode

12V CAR CHARGER TO SUIT

DC-1065/DC-1096
Standard cigarette lighter socket to DC plug. Suitable for charging transceiver models DC-1065 and DC-1096.

- Cable length: 1.2m

DC-1099

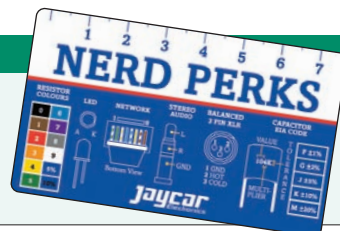


	Cat.	Qty 1+	Qty 5+	Qty 10+
5W VHF Marine Each	DC-1096	\$159.00	\$142.95	\$126.95
Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
Cigarette Lighter Charger	DC-1099	\$17.95	\$15.95	\$14.35
Spare Battery Pack	DC-1066	\$24.95	\$22.35	\$19.70
Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
Leather Pouch	DC-1067	\$12.95	\$11.65	\$10.35

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



UHF ANTENNAS & ACCESSORIES

UHF 4.5dB Black Whip

Offers at least 4.5dB gain.

- Black powder coated
- Stainless steel whip
- Length 565mm.
- Suits standard UHF 5/16" base Cat. DC-3062 on page 442

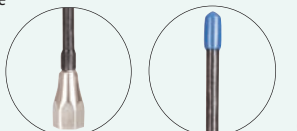


	Cat.	Qty 1+	Qty 5+	Qty 10+
4.5dB	DC-3074	\$22.95	\$20.35	\$18.35

External UHF Antenna

For use with our external antenna base (DC-3066) or any other antenna base with suitable connecting thread.

- Operating Frequency: 477MHz
- Gain: 5-6dBi
- Impedance: 50Ohm
- Length: 650mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
5-6dB	DC-3076	\$19.95	\$17.70	\$15.70

Plastic Microphone Bracket

Microphone bracket clip to suit DC-1120 UHF handset. The back plate features mounting holes for screwing it in and is flat enough to use double sided adhesive tape. Stainless steel mounting screws included.

- Dimensions: 33mm x 36mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3080	\$5.95	\$5.25	\$4.75

UHF External Antenna Base with Cable

Designed for use with our fixed installation transceiver unit (DC-1120) to enable you to connect an antenna. The antenna base can be mounted to a bracket and the PL259 plug will connect to the UHF unit.

- PL259 connection: 17(Dia.)mm
- RG58 Coax Cable
- Antenna base dimensions: 44(Dia.) x 40(H)mm
- Cable length: 4500mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3066	\$29.95	\$26.95	\$23.95

RELATED PRODUCTS

FROM
\$1.45
WB-2010



50Ω COAX

P199

FROM
\$2.95
PP-0680



PL259 PLUGS

P229

FROM
\$6.95
PA-3652



PL259 ADAPTORS

P231

FROM
\$12.95
NM-2828



COAX SEAL TAPE

P46

AUTO & OUTDOORS CARAVANNING EQUIPMENT

CARAVAN POWER ACCESSORIES

Portable RCD with 15A to 10A Mains Plug Conversion

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Ideal if you only have a device with a 15A mains plug, and you are located somewhere that does not have a 15A power outlet available. Features a 10A circuit breaker/RCD in case you accidentally overload the device. Not suitable for outdoor use, unless combined with our HB-6178 weatherproof case.

Specifications	MS-4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA



	Cat.	Qty 1+	Qty 4+	Qty 10+
15A to 10A Mains Adaptor	MS-4044	\$89.95	\$80.95	\$71.95

Weatherproof (IP55) Caravan Power Adaptor with RCD

Finally, a product that legally allows you to connect your caravan/RV into a normal domestic power outlet WITHOUT leaving a hole in your hip pocket - no need for unsafe and illegally modified extension leads!! Weatherproof rated to IP55 it is safe to leave outside, and with a residual current device (RCD) safety switch, this product gives you the ability to safely and legally connect your caravan 15A power lead to a normal 10A power outlet. Also includes a 10A circuit breaker in case you accidentally overload the device. A must have for any caravan or RV. Fully certified for electrical safety (AS/NZS 3190) and compliant to Australia Standards for caravan wiring (AS/NZS 3001).



	Cat.	Qty 1+	Qty 4+	Qty 10+
MS-4044 + HB-6178	MS-4048	\$139.00	\$124.95	\$110.95

Heavy Duty 15A Extension Leads

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present.



- Perfect for caravans and motorhomes

	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS-4182	\$29.95	\$26.95	\$23.95
15m	PS-4184	\$39.95	\$35.90	\$31.90
20m	PS-4186	\$49.95	\$44.90	\$39.90

Inline RCD Circuit Breaker

A vital safety device for anyone that works with electric power tools. It can also be a lifesaver when used with electric grasscutters, electric pumps, rice cookers, water heaters, induction cookers and hair dryers. As this unit is pre-wired with an AS/NZS rated mains plug and socket, no license is required to install it!

Specifications	QP-2002
Rated Voltage	240VAC
Rated Current	10A
Trip Current	30mA
Protection Class	IP65



	Cat.	Qty 1+	Qty 3+	Qty 6+
10A 240VAC	QP-2002	\$34.95	\$31.45	\$27.90

TV ON THE MOVE

12V Masthead Amplifier Power Injector

An easy solution to powering a masthead amp on a caravan, RV, camper trailer etc. It plugs into a cigarette lighter/12V power socket and feeds power for a masthead amplifier. Simply connect between the antenna down lead and your set top box. F-type connections fitted.



- Suitable with LT-3251 VHF/UHF masthead amplifier

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3259	\$39.95	\$35.90	\$31.90

External Weatherproof TV Outlet Box

This product enables you to fit a TV or video outlet to your caravan, motor home, home or office that is water & dustproof but provides clean and reliable electrical connection. It can be used to connect an external satellite antenna to an internal TV or an internal TV signal to an external TV via its hinged cover. It is a twin-cable unit so all connections can be completed in one box. The box measures 120(L) x 68(W) x 30(H)mm. Specially moulded TV fly leads are available: a line PAL socket and a F-type socket. These come complete with 5m of very high quality coax cable. We strongly recommend that you use these cable assemblies as they are designed to fit in the box. The box comes complete with stainless steel mounting and fitting screws.



	Cat.	Qty 1+	Qty 3+	Qty 6+
TV Outlet Box	LT-3027	\$39.95	\$35.90	\$31.90
PAL (Female) with 5m Cable	WV-7356	\$14.95	\$13.45	\$11.70
F-Type (Female) with 5m Cable	WV-7358	\$14.95	\$13.45	\$11.70

Outdoor UHF/VHF/Marine TV Antenna



Digital ready. It rotates. Ideal for "grey nomads". This unit is ideal for the traveller. Because you could be in any part of Aust/NZ this antenna works on all frequencies. (Some better than others, we admit). It covers VHF low, down to 45MHz (channel 2) to 860MHz (channel 69).

It includes a signal amplifier (12VDC powered, adaptor supplied) AND a rotator motor built into the antenna housing AND a remote control for that. It also comes with approx. 8 metres of TV lead with a weatherproof plug on one end.

- Includes booster amp
- Compatible with LT-3204 telescopic mast.
- Supplied with other hardware.
- Output 80 dbuV.
- Requires 2 x AAA batteries
- Antenna measures: 750(W) (deployed) x 300(L) x 100(D)(mm)
- Folds down for storage



	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3143	\$64.95	\$58.45	\$51.95

Outdoor Omni-Directional UHF/VHF Amplified Digital Antenna

With inbuilt low noise and high gain booster, this compact and weather resistant outdoor digital antenna is ideally suited for caravans, boats, and other fixed or mobile applications where space is constrained or harsh environmental conditions require a little extra durability. Excellent wide frequency reception for local free-to-air analogue and digital TV, DAB+ digital radio as well as FM radio transmissions. It can be either base mounted or mast mounted and includes mounting bracket, 12V mains power adaptor and a 12V in-car charger.



- SMD technology
- Anti-rust and UV protected

Specifications	LT-3141
FM	87.5 - 108MHz
VHF	174-230MHz
UHF	470-862MHz
Output level	Max 108dB
Impedance	75 ohms
Receiver dish size	350(Dia) x 60(H)mm
Mounting base size	120(Dia) x 70(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3141	\$89.95	\$80.95	\$71.95

Caravan/RV (General Purpose) Mast

We have had many requests and finally found one. This unit in natural finish anodised aluminium is a telescopic mast suitable for TV and other antennas. It will extend to 1.5 metres in 3 sections. The top section is 27mm dia. which is compatible with almost all TV antenna mounting hardware. The bottom section is 35mm dia. which would easily be accommodated by U-bolt or other clamping hardware (not supplied).

The top section has a sturdy cap and features a slot which enables you to neatly thread the coax lead down through the mast.



- Length extended: 610mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	LT-3204	\$29.95	\$26.95	\$23.95



METAL DETECTORS

Beginner Metal Detector with Auto Tune

A great beginner's metal detector! It is very simple and easy to use - it has an auto tune feature with a meter indication to show metal types detected. It is very reliable with its microprocessor control and digital signal processing. The detector has an adjustable length boom and a waterproof search coil making it suitable for use in a variety of landscapes. It is capable of detecting a coin at 100mm deep and responding to all types of metals. It features volume and sensitivity adjustment knobs, audible alert speaker and headphone socket.

- Requires 6 x AA batteries
- Overall length: 780mm
- Search Coil Dimensions: 165(Dia.) x 17(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	QP-2302	\$69.95	\$62.95	\$55.95

4 in 1 Metal Detector Explorers Kit

A metal detector only does half the job, once the needle starts to flick and the alarm starts to beep, you know you are in for some serious digging. This handy digging set is very light to be carried around and also very tough and durable.

- Includes headphones to connect to your metal detector, a 2-in-1 handheld shovel/rake, a sieve and a carry bag.



Note: Metal detector not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	Explorer's Kit	\$49.95	\$44.90	\$39.90

Waterproof Metal Detector with Large LCD

Ideal for beachcombing and prospecting as well as finding objects in obscured locations such as long grass, this high grade portable metal detector is suitable for many applications. Capable of detecting a coin at up to 180mm depth it will detect a variety of metals, with three different tones to distinguish dissimilar metals. Operating at a low frequency of 6.6KHz, the detector will only respond to metal objects and ignores the effects of iron ground mineralization, making it more accurate for locating at large depths. Alternatively, the all-metal mode can be switched on to enable any underground metal traces detected and is signalled both optically and acoustically. An extra large waterproof pick-up coil with its intricate two-dimensional helical winding technology enables very fine and precise measurements to be carried out while carrying it comfortably with the arm support.

- Adjustable sensitivity
- Deep target searching
- 3 Operation modes: All metal, Disc, Notch
- Ferrous/Non-ferrous indicators
- Waterproof search coil
- 3 Tones for different metal indication
- One touch auto ground balance
- Headphone jack & 2" speaker
- DSC and GND adjustment

Specifications	QP-2307
Power	Requires 2 x 9V batteries
Overall Length	1250mm
Search Coil Dimensions	205(Dia.)mm

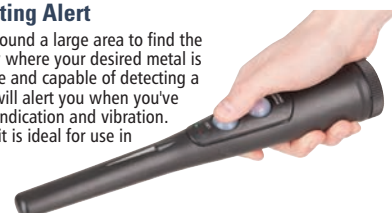


	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	QP-2307	\$169.00	\$151.95	\$134.95

Waterproof Metal Detection Pin-pointer with Vibrating Alert

Don't waste time ploughing around a large area to find the target object, pin-point exactly where your desired metal is before digging. Highly accurate and capable of detecting a coin at up to 30mm depth, it will alert you when you've found your treasure with LED indication and vibration. Easy to carry and waterproof, it is ideal for use in many environments.

- Completely Waterproof
- LED Indicator and Vibrating Alert
- Low Battery Indication
- Power: Requires 1 x 9V Alkaline battery



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	Pin-Pointer	\$59.95	\$53.95	\$47.95

SCOPES

50x Spotting Scope with Smartphone Viewing Attachment

A fantastic addition to the age old invention that is a telescope. Observe the cosmos, wildlife at game parks, or aircraft landing and capture it all on your iPhone® by attaching it to the tele-lens. This kit comes with a traditional telescope, a K25mm eyepiece for viewing the skies above, as well as a 50x tele-lens for attaching to an iPhone 4s/5s® or Samsung Galaxy® S3/S4. Capturing close-up footage of distant objects is now incredibly easy. In a few seconds it could all be uploaded to Facebook, Instagram or your blog. Comes with handy carrying pouch for transporting to your spotting location.

- Supplied with brackets for iPhone® 4s, iPhone® 5, Samsung Galaxy® S3/S4/
- F40070 telescope
- Magnification: 12x, 16x, 50x
- K25mm eyepiece
- 50x tele-lens kit
- Light weight tripod
- Carrying pouch included
- Dimensions: 480(L) x 90(Dia)mm



	Cat.	Qty 1+
↑	50x Spotting Scope	\$149.00

Night Vision Monocular with 3 x Magnification & IR Illumination

Price Breakthrough! Up until now we have avoided selling night-vision products because we felt that not only were they expensive but they didn't perform all that well. This unit, however, changes that. Not only is this product relatively low cost, it has 3 x magnification and an infrared illuminator when light levels are extremely low.

- The unit has a focusing ring and attachments for a tripod mount

Specifications	GG-2129
Type	3 x 42 image intensifier tube
Max range	150-200m (2-10 Lux)
Field view	13°
Eye piece	-4 to +4 diopter
Battery	CR123A required
Battery life	approx 30 hours
Weight	300gms
Accessory	Carry bag
Lens Dia.	42mm
Dimensions	170(L) x 75(H) x 50(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
↑	3x Monocular with Night Vision	\$349.00	\$309.00	\$279.00

AUTO & OUTDOORS COOLERS & PORTABLE REFRIGERATION

PORTABLE FRIDGE / FREEZERS

12VDC/240VAC Powertech Portable Fridge/Freezers

Utilising the renowned German Danfoss® BD-35F DC compressor and electronic control module, these Powertech portable fridge/freezers keep your food and drinks fresh and cold with superb energy efficiency and reliability. Each model features a digital display control panel to set the fridge temperature from -30° to 30°C, an internal LED light to help illuminate the fridge with minimal power draw, 3-stage low-voltage battery protection, an internal food basket with removable divider and a separate dairy section. The whole body is completely insulated with PU foam to ensure the inside remains nice and cold with minimal compressor run-time, and tough external carry handles double as tie down points. Capable of being powered by either 12-24VDC or 240VAC, they are a fantastic solution for 4WD, camping, caravanning or any other outdoor adventure. We are so confident in these Powertech portable fridge/freezers, we back them with a 5 year compressor warranty, and a 3 year components warranty!



GH-1604

- Digital temperature display with adjustable control
- AC or DC power connections
- 3-stage low voltage battery protection
- German Danfoss® BD-35F compressor and electronic control module
- Internal LED light
- Internal basket with removable divider
- Separate dairy section
- Strong carry handles/tie-down points
- Polypropylene construction with PU foam insulation
- Dual mode operation (max & economy)
- High impact Case

Note: Not available at all stores but can be ordered. Phone ahead.

Specifications	GH-1600	GH-1602	GH-1604
Internal capacity	30L	40L	50L
Input voltage	12/24VDC, 240VAC	12/24VDC, 240VAC	12/24VDC, 240VAC
Temperature range	-30°C - +30°C	-18°C - +10°C	-18°C - +10°C
Refrigerant	R134a	R134a	R134a
Insulation	PU foam	PU foam	PU foam
Avg. current draw	17Ah/day	17Ah/day	17Ah/day
Weight	16kg	17kg	18.5kg
Dimensions (LxWxH)	585 x 350 x 380mm	585 x 350 x 490mm	585 x 350 x 530mm



ACCESSORIES INSULATED FRIDGE BAGS TO SUIT

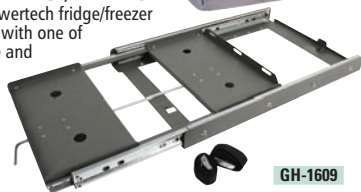
30L GH-1601
40L GH-1603
50L GH-1605

GH-1601



SLIDE DRAWER FOR POWERTECH FRIDGE/FREEZERS

If you're planning to install your Powertech fridge/freezer in the back of your 4WD, installing with one of these slide drawers is a very secure and convenient way to go. Simply bolt the slide drawer base down securely, and then secure down your fridge to the drawer with the supplied tie down straps. The drawer locks in 3 positions, has ball-bearing runners, and can handle up to 100kg load.



GH-1609

- Dimensions: 630(L) x 405(W) x 66(H)mm

GH-1609

POWERTECH

↑		Cat.	Qty 1+
	30 Litre Fridge/Freezer	GH-1600	\$849.00
	40 Litre Fridge/Freezer	GH-1602	\$899.00
	50 Litre Fridge/Freezer	GH-1604	\$989.00
↑	Accessories to Suit	Cat.	Qty 1+ Qty 3+
	30 Litre Insulated Bag	GH-1601	\$79.95 \$71.95
	40 Litre Insulated Bag	GH-1603	\$89.95 \$80.95
	50 Litre Insulated Bag	GH-1605	\$94.95 \$85.50
	Slide Drawer	GH-1609	\$299.00 \$269.00

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



12VDC THERMOELECTRIC COOLER & WARMER

14L 12VDC Thermoelectric Portable Cooler & Warmer

Here's a great way to keep your food and drink cool or warm in the car at the worksite or during the long road trip. It is extremely low noise and uses full foam insulation to keep it lightweight and portable. 12VDC powered, so it's simply a matter of connecting to your cars cigarette lighter socket and switch on either cooling or warming mode. Will fit a bottle of white wine or 2L bottle of milk lying down.



Specifications	GH-1373
Voltage	12VDC
Minimum temperature	18°C-20°C below ambient temp
Max Temperature	65°C
Capacity	14 litres
Power usage warming	38W
Power usage cooling	46W
CFC Free	
Dimensions	490(L) x 305(W) x 270(H)mm



THERMOELECTRIC HEATING/COOLING

This technology uses the "Peltier Effect" to increase or decrease temperature. It is fully solid state and is very reliable. It is quite inexpensive as it does not use gas compressor technology. The amount of temperature differential from ambient, is however, fairly modest. If you really want massive chilling or freezing capacity, you are better of saving your pennies and buying a POWERTECH compressor-type unit shown below.

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
14L Cooler	GH-1373	\$119.00	\$106.95	\$94.95
Replacement Lead	PP-1986	\$17.95	\$16.10	\$14.35

PORTABLE FRIDGE STAND

Folding Aluminium Fridge Stand

Raise your camping fridge or Ice box off the ground to a more convenient height, and away from dirt, sand and water. Handles up to 150kg, so it will support the Powertech range of fridges.



- Very strong and durable aluminium frame
- Three adjustable height settings
- Folds flat for stowage
- Storage bag included
- Dimensions: 500(L) x 520(W) x 480(H)mm when open



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Stand	GH-1608	\$59.95	\$53.95	\$47.20

REPLACEMENT FRIDGE LEADS

Replacement Lead for Portable Fridges

- Suits cigarette and merit sockets

PP-1984

PP-1982

SUITS WAECO FRIDGES

PP-1982

SUITS ENGEL FRIDGES

PP-1984

↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.8m	PP-1982	\$19.95	\$17.70	\$15.70
	1.8m	PP-1984	\$19.95	\$17.70	\$15.70

Replacement Power Lead for Thermoelectric Cooler/Warmer

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input.



- Can fit into cigarette or merit sockets
- 1.8m long

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-1986	\$17.95	\$16.10	\$14.35

OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references. For application details see our Store Managers.

GAS MONITORING

Electronic LPG Gas Level Monitor

The clever unit attaches to your steel LPG bottle. It detects the gas in your bottle, (typically 9kg) and gives a musical alarm when the gas in your bottle is low. Don't run out of gas halfway thru a barbie ever again!

- Works on any steel LPG cylinder
- Uses 2 x AA batteries (supplied)
- Virtually no installation
- Magnetically attaches to cylinder



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1662	\$13.95	\$12.55	\$11.15

Gas Leakage Detector

Gas leaks can be incredibly dangerous, even small ones. Run a quick check over your house or gas powered devices to make sure all outlets are safely sealed. Hold the power button for a few seconds and then place the detector near the suspected leak and visual/audible warnings will sound if the leak is bad, moderate or safe. Red (Hi), orange (Lo), and green (safe) LEDs denote the severity of the leak.



Specifications	QP-2299
Requires	2 x AAA batteries (not included)
Sensor detects	butane, propane, acetylene, and methane (natural gas)
Dimensions	165(L) x 27(W) x 21(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2299	\$44.95	\$40.45	\$35.95

PORTABLE SHOWER

12V Camping Shower

All you need is a bucket of warm water and your vehicle's 12V battery and you can wash away the cares of the day. The 4.8 metre power cable plugs into your vehicle's cigarette lighter socket and a waterproof switch controls power to the pump. The shower comes with 2.1 metres of plastic tubing, pump, showerhead, hanging hook and a nifty carry bag to store it in. This self-contained little beauty even has a water flow control valve built into the showerhead and will become an indispensable part of your travelling kit.

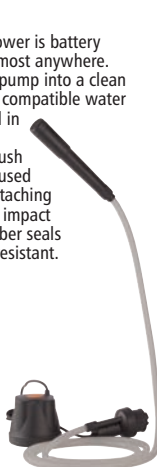


↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS-2800	\$34.95	\$31.45	\$27.95

Portable Camping Shower - Battery Operated

This high quality portable shower is battery powered so you can use it almost anywhere. Simply drop the submersible pump into a clean water supply or attach it to a compatible water barrel, hang the shower head in a convenient location, and activate the pump with the push button switch. It can also be used as a direct water pump by detaching the shower head. Made from impact resistant ABS plastic with rubber seals all components are weather resistant.

- Hose Length: 2.5m
- Power Cable Length: 1.8m
- Requires 4 x D batteries (not included)
- Battery Pack Dimensions: 100(Dia) x 95(H)mm



↑	Cat.	Qty 1+
Battery Operated	YS-2802	\$24.95

COLLAPSIBLE BUCKETS

Collapsible Bucket & Wash Mitt Kit

A handy collapsible bucket with a wash mitt for keeping your car clean at home or on the road. The mitt is like wearing a mop on your hand, it is extremely effective at clearing away dirt and grime from your car, truck, 4WD or motorbike. When the washing is finished just fold it all away and store in the supplied pouch. Keep one in the boot!

- Thumbless wash mitt for either hand
- Bucket capacity: 10.5L
- Dimensions: 245(Dia.) x 38 - 265mm high



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1266	\$13.95	\$12.35	\$10.95

FOOD & BEVERAGE ACCESSORIES

Large Portable Stove - 12V

Perfect for cooking and/or storing food hot on those long trips. It gets up to 149°C and its insulated design keeps food hot, while the outside stays cool. It plugs into a 12V cigarette lighter socket in the car.

- Heats food in just 3 minutes
- Holds up to 3 litres
- Internal temperature up to 300°F/149°C
- Easy to setup and use
- Cable length: 1.9m



Dimensions:
• External: 270(L) x 200(H) x 170(W)mm
• Internal: 230(L) x 130(W) x 80(H)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS-2811	\$49.95	\$44.90	\$39.90

Stainless Steel Travel Mug with Built-in Heater

Keeps your coffee, tea, or other beverages hot while driving. This handy travel mug has a built-in, thermostatically controlled heater and will maintain one of four selectable preset temperatures (Room temp, Luke warm, Hot and Very Hot). The mug shows the actual temperature on an LCD and indicates the heating progress via the control panel display. The mug holds up to 500ml and has a anti-spill lid with retractable drinking spout.

- Stainless Steel construction with ergonomic handle
- Fits in a cup holder
- Heats from 10° to 70°C
- Celsius and Fahrenheit selectable
- Includes 1.5m detachable 12V lead with cigarette lighter plug



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH-1301	\$39.95	\$35.95	\$31.95

12V Car Kettle

Now you can stop, revive, survive anywhere. This kettle makes the ideal travelling companion for those who spend a lot of their time on the road. Simply plug into your car's cigarette lighter socket, mount to your car's interior and boil away. Holds up to 550ml and makes up to 4 cups of tea, coffee, soup or any other hot beverage. Note that this device is not the same as your domestic kettle which consumes much more power so boiling times will be longer.

- 2 cups, strainer and mounting bracket included
- Approx boiling times
300ml - 15min
500ml - 28min
- Dimensions: 235(H) x 95(dia)mm

Be prepared for a wait for your cuppa! It takes a LONG TIME for 12 Volts to boil water but it does eventually!



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH-1380	\$17.95	\$15.95	\$14.35

TECH TALK!

12V KETTLES & HOT WATER, HOW LONG IS TOO LONG?

A lot of people bring these back as they are dismayed at the amount of time it takes to boil water. They often take over 20 minutes to boil 1/2 a litre of water.

You need to look at the physics of this. A 12V Kettle will often draw 20 amps at 12V. This equates to 240 watts of power. Whilst this may seem a lot, it is generally only a fraction of a domestic 240V Kettle. They routinely draw between 1800-2200 watts of power. No wonder they are quick!

12V Kettles work, but the laws of physics are against them. You may be able to live with them once you are aware of the above.

FANS

12VDC Oscillating Fans

Keep cool in the stifling heat. If you need some extra air circulation in your car or truck grab one of these fans, mount it, and away you go. The models just connect to your cigarette lighter socket for power. The on/off switchbox includes screw mounting holes to give your installation a more permanent look.

Clamp and suction mount bracket versions available.

Specifications	Both
Power	12VDC
Dimensions	180(Dia.) x 145(D)mm
Switch	On/off oscillating switch
Cable length	2m



	Cat.	Qty 1+	Qty 3+	Qty 6+
Fan with Clamp	GH-1398	\$24.95	\$22.45	\$19.95
Fan with Suction Mount Bracket	GH-1399	\$24.95	\$22.35	\$19.70

Portable Ceiling Fan & Light

Designed for use while camping, this battery powered ceiling fan is also great for use around the home or workshop. With a carabiner for easy setup you simply hang it anywhere you require some airflow and turn it on. The fan has soft foam blades for safety and two speed settings to match your cooling requirements. The bright white LEDs allow you to illuminate your tent or work area, while a softer yellow LED mode allows it to be used as a night light.

- Maximum Run Time: 48 hours
- Requires 4 x D batteries (not included)
- Dimensions: 220(Dia) x 145(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Battery Operated	YS-2804	\$39.95	\$35.90	\$31.90

4" Super-Compact Mini Fan "Katabat"

A range of mini fans which are ideal for camping, boating and caravanning, but even ideal for a daughter's dressing room table! The 4" fan produces a surprising amount of cooling air but only has a table footprint of only 110 x 35mm. It is self-sustained using a rechargeable Li-ion 18650 3.7V battery. No cords needed, a USB recharger is included with the product. It has a very sturdy fan guard, and can be used even around small children - with adult supervision of course. It comes with a hook to hang it up and even has an LED which can be used as a torch. More useful is the fact that small as it is, it has a 3-speed fan button! Unbelievable!

- Dimensions: 140(H) x 110(W) x 35(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	GH-1286	\$14.95	\$13.45	\$11.95
Blue	GH-1287	\$14.95	\$13.45	\$11.95
Purple	GH-1288	\$14.95	\$13.45	\$11.95
White	GH-1289	\$14.95	\$13.45	\$11.95

Evaporative-Type Cooler Fan

If the local humidity is below 100%, i.e. most of the time, an evaporative-type fan can be very effective. By blowing air over water, the evaporative process pulls heat out of the air. The result is a flow of air much colder than the ambient air. This unit has a very efficient, brushless DC drive motor for the fan and runs for a very long time on the rechargeable battery.

- AC/DC operation
- 20m3/hr air volume
- 500ml water tank
- Includes charger and sealed battery
- 2 speed fan - Runs 2.5hr on high, 5 hours on low
- USB port to charge your phone
- Dimensions: 125(W) x 250(H) x 130(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1285	\$109.00	\$97.95	\$86.95

AC/DC Rechargeable Oscillating Fans

These fans are the ideal size for a medium/large caravan, motor home or cabin cruiser. They provide a low noise, source of breeze in a confined space. The fact that you don't have to plug them in makes them extremely versatile. For example, you can put one inside a tent on a hot night. It is amazing how just a whiff of cooling air helps you sleep.

Common specifications:

- AM/FM radio
- 400m3/hr air flow on high
- Run up to 2.5 hours at high speed or 5 hours at low speed
- Supplied with mains charger

10" AC/DC RECHARGEABLE FAN

Features an auxiliary input so you can play music from your Smartphone or MP3 player on the built-in speaker.

- Dimensions: 395(H) x 320(W) x 140(D)mm



14" AC/DC RECHARGEABLE OSCILLATING FAN

Has a small flashlight/torch built-in which could be handy to illuminate an object in an otherwise dark tent. It has an energy save feature, and there is a facility to swap over the rechargeable battery with a charged one should you need to keep the fan going for a long time. The spare battery is a very popular option. Of course, if you have a source of main power, you can run it indefinitely.

- Dimensions: 410(H) x 385(W) x 160(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
10"	GH-1282	\$89.95	\$80.95	\$71.95
14"	GH-1284	\$139.00	\$124.95	\$110.95
Spare battery to suit GH-1284	GH-1281	\$14.95	\$13.45	\$11.95

Deluxe Water Misting Fan

Be cool and comfortable while outdoors with this personal water mister and fan in one. It is handy and portable with a moulded hand grip and trigger pump for ease of use. Powerful enough to provide a significant amount of breeze but safe enough for the kids to use with soft blades. Great for use while camping, at the beach, or at sporting events etc.

- Use as a water misting fan, stand alone fan or stand alone mister
- Requires 2 x AA batteries
- Dimensions: 270(H) x 70(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Misting Fan	GH-1071	\$12.95	\$11.65	\$10.35

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

MULTITOOLS

Survival Knife with LED Torch/Fire Starter/Belt Cutter/Window Breaker

Built for extreme adventures, the knife is crafted using Grade 420 stainless steel for maximum durability. A liner lock system allows you to effortlessly extract the blade with one hand, leaving the other one free. Use the serrated edge to cut with speed or the straight edge to cut with precision. The built-in LED light lets you see in the dark while the magnesium alloy fire starter lets you start your own campfire. If you find yourself trapped inside your own vehicle, use the belt cutter and window breaker for quick escape.

- Grade 420 stainless steel construction with anodised aluminium handles
- Liner lock system
- Blade features straight and serrated edges
- Built-in LED light
- Magnesium alloy fire starter
- Belt cutter
- Window breaker
- Dimensions:
 - Open: 208(L)mm
 - Closed: 126(L)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Survival Knife	TH-1925	\$18.95	\$17.05	\$15.15

PLEASE NOTE:

Some age restrictions apply in some states for knife sales

12 in 1 Multi-Function Tool with Carry Pouch

Versatile and incredibly strong. Features an all aluminium frame and a locking mechanism that ensures the tool stays open until the job is completed. Its sleek and lightweight design enables you to take it anywhere, and it is a great alternative to carrying additional full-sized tools. Includes a file, bottle/can opener, saw, scissors, small and large knife, 3 sized standard screwdrivers, a Phillips head screwdriver, long nose pliers and an LED torch. Complete with a nylon pouch and a snap button loop for easy attachment to additional gear, the 12 in 1 Multi-Function Tool is a must have for any explorer.

- Dimensions: 99(L) x 43(W) x 18(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Multi Tool	TH-1926	\$29.95	\$26.90	\$23.70

GREEN POWERED TORCHES / RADIOS

Multi-Function Dynamo Torch with Igniter

The ideal accessory for camping, hiking and emergency situations. It's a torch, mobile phone charger, compass, whistle, and a windproof igniter for starting camp fires. Includes carabiner to attach to your bag or gear and doesn't need batteries - simply crank the dynamo handle to generate power.

- Dimensions: 105(L) x 52(W) x 34(H)mm



	Cat.	Qty 1+
Dynamo	ST-3341	\$11.95

LED Torch/Radio/USB Charger Dynamo with Built-in Solar Panel

A handy emergency LED torch/radio/mobile phone charger, suitable for camping or general outdoor use. Charge the internal battery using a USB power source; built-in solar panel; or hand crank dynamo. Tune into emergency broadcasts or regular radio stations by adjusting the telescopic antenna and the tuning dial; the radio supports AM/FM and three Short Wave frequencies.

- Dimensions: 135(L) x 64(W) x 40(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Dynamo/Solar	ST-3358	\$44.95	\$40.45	\$35.90

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card
and let them choose!



FIRE STARTERS

Fire Starter Rod Kit

A handy addition to the survival kit if you're going camping. Simply strike the flint rod and metal striker together to create a spark, even in wet or cold. Much easier than rubbing sticks together.

- Rod length: 60mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1933	\$9.95	\$8.95	\$7.95

FIRE BLANKETS

Fire Blanket

Designed for extinguishing small fires. The fire retardant fibreglass fabric will suffocate the flame quickly allowing you to restore safety. Keep one in your kitchen, workshop, boat, caravan, 4WD or at the campsite.

- Supplied in Soft Pouch



	Cat.	Qty 1+	Qty 3+	Qty 6+
1m x 1m	GG-2340	\$14.95	\$13.45	\$11.95
1.2m x 1.8m	GG-2342	\$24.95	\$22.35	\$19.70

FIRST AID KIT

47 Piece First Aid Kit

Ideal for the home, office, car or boat. This kit contains sticky plasters, bandages, safety pins, anti-bacterial solution, scissors and much more. All packed in a super durable, red high visibility nylon storage case.



	Cat.	Qty 1+	Qty 3+	Qty 6+
First Aid Kit	ST-3968	\$16.95	\$15.25	\$13.55

ROADSIDE ASSIST

Roadside Auto Emergency Kit

A must have for every car, caravan, or boat for that extra travel security if you break-down or become stranded. The 10-piece kit includes some first aid items to patch up a bleeding hand, leads to jump start a car with a flat battery, LED head torch to help see around an engine bay at night, and rubber grip gloves to grab items without slipping.

- Custom storage case contents:
 - 4 LED Head Torch
 - Light Duty Jumper Cable Set
 - Rubber Grip Gloves
 - Tyre Pressure Gauge
 - First Aid bandages and disinfectant pads
 - Multipurpose tweezers
 - Emergency rain poncho
 - Requires 3 x AAA batteries for the head torch
 - Case dimensions: 265(L) x 157(W) x 75(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Emergency Kit	ST-3267	\$24.95	\$22.35	\$19.70

LED Emergency Warning Light with Magnetic Base

A 9 x LED emergency light with a magnetic base for car breakdowns, campsites, or boating. The extra visibility can be critical in warning other motorists of your plight so they can slow down or avoid you in time. A must have for all motorists. Bright orange colour with attention grabbing red/white stripes.

- Requires 3 x AAA batteries
- 9 x LEDs
- Light modes: Constant on or flashing
- Dimensions: 140(L) x 140(W) x 35(H)mm



	Cat.	Qty 1+
LED Emergency Light	ST-3085	\$9.95

PEST CONTROL

The Amazing Flygun

The Amazing Flygun is a spring powered gun that kills flies, mosquitos and cockroaches! It is fun, safe and easy to use. The swatter is simply pushed onto the gun and it is ready to use. A long string is also attached so the swatter won't get lost. It is then ready to be reloaded and fired again. It is fun, effective and really does work! It has proven extremely popular, with thousands being sold every month!



	Cat.	Qty 1+	Qty 3+	Qty 6+
Flygun	YS-5545	\$7.95	\$6.95	\$6.25

Fly Swatter Pistol

This swatter has swagger! Rid your personal airspace of pesky flying insects in style with this swatter pistol. At the pull of a trigger, the spring loaded gun unleashes a thundery smack, annihilating flying pests into scores on the marked target. Get a pair and start a competition!



	Cat.	Qty 1+	Qty 3+	Qty 6+
Fly Swatter Pistol	YS-5550	\$9.95	\$8.75	\$7.75

Personal Sonic Insect Repeller

Keep the mozzies away! With a range of 6 metres, it's perfect for camping, picnics fishing etc. It also has a pocket or belt clip to keep it handy.

- Requires AA battery: SB-2424.
- Dimensions: 75(L) x 25(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Insect Repeller	YS-5534	\$9.95	\$8.75	\$7.75

Photocatalyst Mosquito Trap

Mosquitoes are attracted to the carbon dioxide humans emit and they are also highly sensitive to ultraviolet light. When the ultraviolet light in these units shines onto the titanium dioxide, it will emit carbon dioxide through a photocatalytic reaction. These two major elements will attract mosquitoes. When the mosquito gets too close to the unit, the fan will suck them into the capture compartment, once inside they can't escape and their exoskeletons will dry out eventually killing them. Far cleaner than using noxious mosquito coils, spray on repellent, etc. Mains power supplies included.

- To power from 12V use 12V Cigarette Lighter Lead PP-1997
- Power: 12VDC 1000mA
- Consumption: 11W
- Detachable base for easy cleaning
- 11W Fluoro Globe
- Dimensions: 248(H) x 245(Dia.)mm



SPARE 7W FLUORO GLOBE TO SUIT YS-5516
YS-5517

	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor/Outdoor	YS-5516	\$69.95	\$62.95	\$55.95
Spare 7W Globe to suit YS-5516	YS-5517	\$9.95	\$8.75	\$7.75
12V Cigarette Lighter Power Lead	PP-1997	\$4.95	\$4.45	\$3.90

High Power 'Frequency Shifting' Ultrasonic Pest Repeller - 140dB

This ultrasonic pest repeller uses frequency shifting techniques which may prevent pests from developing an immunity. The device has an output of 140dB that can protect up to 280 square metres. The repeller may be effective against mice, rats, roaches, fleas, flies, crickets, silverfish, waterbugs, moths, ants, spiders and most other common pests. The ultrasonic frequencies used are out of the hearing range of humans and most household pets such as cats, dogs, fish & birds etc. We make no guarantees that this device will solve your particular problem, but there are thousands of people who swear by them.

- Supplied with mains plugpack and installation guide.
- Dimensions: 120(Dia.) x 75(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
140dB	YS-5520	\$34.95	\$31.45	\$27.90

Dual Speaker Pest Repeller

Emits ultrasonic sound waves which are extremely unpleasant for cockroaches, flies, crickets, silverfish, earwigs, mice and other nasty critters. Laboratory research has shown ultrasonic sound waves attack the auditory and nervous systems of most common pests causing them pain and discomfort. The high intensity sound waves will end up driving away these pests. The frequency can be manually adjustable from 22kHz up to 49kHz, for driving away certain pests. A clean alternative to using poison or dangerous traps. Includes mains power supply.



Specifications	YS-5528
Frequency range	22kHz-49kHz (manual control)
Power consumption	2W
Output sound pressure	115dB x 2
Dimensions	155(L) x 90(W) x 85(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x 115dB	YS-5528	\$54.95	\$49.45	\$43.90

Rechargeable Insect Zapper with LED Lantern

Make the most of your outdoor space during the summer nights with one of these super efficient zapper lanterns. It has a rechargeable battery built in so you don't have to keep replacing costly batteries. The lantern shaped design easily fits into the garden theme and is aesthetically pleasing either on or off. The power button toggles between bug attracting UV light, white LED stand alone lantern and off.

- Protection grill for safety
- Special treated UV-A light for insect attraction
- 5V 500mA charger included
- Dimensions: 230(H) x 110(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	YS-5512	\$54.95	\$49.45	\$43.90

ELECTRIC FENCE

Electric Fence Energiser - 10km

Capable of electrifying up to 10km of fencing for enclosing livestock such as horses, chickens, cattle, sheep, etc. Installation is simple, connect up to a 12VDC lead acid battery via the alligator clips, and then using the binding posts, wire up to a suitably fitted electric fence wire and ground stake. You will need to ensure that you have the correct electric fence isolators, joiners wire and tape fitted to your fence to ensure it works properly - full instructions are included with the unit and available on our website. The required fencing components are available from most agricultural supply stores.

- 10km range
- 0.6 Joules
- Average power consumption: 10mA
- Max power: 12VDC 85mA
- 12VDC battery operated (recommended 4Ah or larger SLA)
- Minimum 3W solar panel recommended
- Dimensions: 171(H) x 95(W) x 45(D)mm



Note: DO NOT CONNECT TO MAINS ELECTRICITY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fence Energiser	ME-6800	\$84.95	\$76.45	\$67.95

TRAVEL ACCESSORIES

Digital Map Measure with LED Light

Working out the distance between two points on a map or chart is easy with this navigation tool. The scale can be adjusted for any map. The LCD screen has a backlight for night use and an LED flash light. A must have gadget when out on the road, water, or in the bush.

- 10m measuring range
- Minimal distance on display: 1mm
- Backlight LCD
- LED Flashlight
- ON/OFF, light, unit, scale and trace buttons
- 1 x CR2032 3V battery Included
- Dimensions: 96(L) x 50(H) x 13(W)mm



	Cat.	Qty 1+
Map Measure	XC-0374	\$6.95

AIR COMPRESSORS

12VDC Air Compressors

Powerful air compressors great for a variety of outdoor activities and emergency situations such as pumping flat car/4x4/truck tyres, inflatable boats, air beds, etc. Both models incorporate automatic thermal cut-out for added protection as well as cleanable air filters to keep the units free from dirt and other contaminants. Includes heavy duty battery clamps for secure connection to your 12V power source and extendable coil hoses for reaching those tricky spots. Each unit has anti-vibration mounting feet to ensure they stay planted to the ground and a foam grip handle. Accessory nozzles for pumping bike tyres, balls, and other inflatables included as well as a black carry bag.

Specifications	MC-7202	MC-7200
Power	12VDC	12VDC
Gauge	150PSI	150PSI
Current	35A	45A
Max pressure	150PSI	150PSI
Power	420W	540W
Max air flow	72L per minute	180L per minute
Hose	10m PA Hose	5m PA Hose
Dimensions	289(L) x 185(H) x 139(W)mm	345(L) x 215(H) x 150(W)mm



MC-7202



MC-7200



TECH TALK!

How do you know you are getting a good compressor? The real way is to pull the compressor apart and check the piston. A good compressor will have a steel piston in an alloy cylinder, or an alloy piston in a steel lined cylinder. An easier way is to look at the construction of the tyre inflator. Cheap compressors supply a poorly built & flimsy unit. Check ours out.

	Cat.	Qty 1+	Qty 3+	Qty 6+
72L/Min	MC-7202	\$129.00	\$115.95	\$102.95
180L/Min	MC-7200	\$199.00	\$178.95	\$158.95

ALCOHOL BREATH TESTERS

Note: Readings taken with these devices are for reference only. In spite of its quality and accuracy, errors may occur due to operation or environmental conditions and we accept no liability or responsibility whatsoever for any consequences arising from the use of these devices.

Alcohol Breath Testers

Check your blood alcohol content with these affordable pocket alcohol breath testers before getting behind the wheel. Easy one button operation; simply blow in the nozzle and within seconds it will display the reading on its backlight LCD. There is a compartment on the back of the unit to store up to 5 plastic nozzles. A small investment to ensure you retain your driving privileges and prevent potential accidents.

Two models to chose from.

Common features:

- Three kinds of unit conversion (%BAC / BAC /mg/L)
- Audible alert when measurement over preset level
- Auto power off
- Supplied with 5 mouthpieces - replacements available separately

ALCOHOL BREATH TESTER WITH LCD - QM-7304

Semiconductor based sensor.

Specifications	QM-7304
Detection Range	0.000 - 0.199% BAC
Accuracy	±0.010% BAC
Display	Digital LCD
Warm-up Time	<20s
Response Time	<5s
Power	Requires 3 x AAA batteries
Weight	68.5g (excluding batteries)
Dimensions	120(L) x 61(W) x 29(D)mm



ALCOHOL BREATH TESTER WITH LCD - QM-7306

Fuel cell sensor, which provides higher accuracy alcohol reading over the standard semiconductor sensor. This is the same technology widely used in law enforcement applications.

Specifications	QM-7306
Detection Range	0.00 - 4.00% BAC
Accuracy	0.004% BAC
Display	1.35" Digital LCD
Warm-up Time	<20s
Response Time	<5s
Power	Requires 3 x AAA batteries
Weight	50g (excluding batteries)
Dimensions	110(L) x 40(W) x 20(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Alcohol Breath Tester	QM-7304	\$54.95	\$49.45	\$43.95
Spare Mouth Pieces - Pack of 10	QM-7305	\$9.95	\$8.75	\$7.75

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Fuel Cell Alcohol Breath Tester	QM-7306	\$109.00	\$97.95	\$86.95
Spare Mouth Pieces - Pack of 10	QM-7307	\$9.95	\$8.75	\$7.75

Workbench sent to us by: Anthony Jaycar Store: Campbelltown

After about 10 years, my Dad and I finally upgraded my bench from a small and overfilled table in the garage to a much larger and 'cleaner' workspace. (My excuse: Since I'm at uni and learning about new concepts I need a bigger bench to experiment and test these new concepts to get higher marks!)

I've recently put the finishing touches to the bench, such as the computer, and now it's set out exactly how I want it!

At the moment, I am working on a replica BB-8 Droid so I am currently scavenging for parts and experimenting with motors.



For more details, visit:
www.jaycar.com.au/workbench



AUTO & OUTDOORS ENVIRONMENT MONITORS

ANEMOMETERS

Hand-held Anemometer with Tripod Stand

Measure wind speed in km/h, mph, ft/min, meters/sec or knots for your outdoor activity. It also indicates wind-chill, air temperature, comfort level and displays current, maximum and average wind speed. There is also a beaufort scale bar graph for a quick indication on the wind condition. Supplied with lanyard and tripod.

- Windspeed range: 0.3m/s to 30m/s
- LED backlit display
- Celsius and Fahrenheit selectable
- Temperature range: -29.9 to +59°C
- Temperature resolution: 0.1°C
- Comfort levels: Comfort, Cool, Cold, Extreme & Danger
- 3V button cell battery (CR2032) included
- Low battery detection and display
- Battery life: Approx 12 months
- Measures: 140(H) x 50(W) x 18(D)mm less stand.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM-1644	\$69.95	\$62.95	\$55.95

Wind Speed Anemometer/Thermometer

This unit is a more sophisticated version of our QM-1644 Anemometer. Firstly, it is capable of measuring wind/airflow parameters at the same time as monitoring temperature.

- Metres/sec; km/hr; feet/min; miles-per-hour; knots
- Cubic metres/minute; cubic feet/minute
- Air temp, 0-50°C (0.1°C resolution)
- Auto power off
- Vane impeller ball bearing mounted
- 1m vane probe lead



	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM-1646	\$129.00	\$115.95	\$102.95

TANK LEVEL METER

Ultrasonic Water Tank Level Meter with Thermo Sensor

Keep an eye on your outdoor water tank from the comfort of your own living room, up to 100m away. Installed at the top of your water tank, the transmitter unit measures the water level and temperature using an ultrasonic sensor. You can hang the receiver unit on a wall (hooks) or pull out the stand and place it on your kitchen bench top, table or desk. View your room's temperature, tank temperature and water level (represented by a 10 element bar graph). You can store min/max records and set alarms for specific water levels (high/low) or when empty.

- Transmission range up to 100m
- Time display (12/24hr)
- Time alarm mode
- Calendar display
- Indoor temp. display (°C/°F)
- Tank temp display (°C/°F)
- Tank level display (metre/feet)
- Water level displayed on a 10 element bar graph
- Min. & Max. records for indoor & tank temp.
- Tank level alarm mode (high/low)
- Tank empty alert
- Low battery indicator
- Tank level updated every 30 seconds or 3 mins
- Wall mount, Free standing
- Battery power: receiver 2 x AA 1.5V (not included), outdoor transmitter: 6 x AAA 1.5V (not included)
- Dimensions: Receiver: 106(L) x 97(W) x 24(D)mm
Sensor (into tank): approx 47(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Water Tank Level Meter	XC-0331	\$79.95	\$71.95	\$63.95

RAIN GAUGE PRO

Digital Rain Gauge with Temperature

This Digital Rain Gauge with Temperature has a wireless self-emptying rain collector for measuring rain fall and temperature. The wireless rain collector sensor transmits data by using a low power radio frequency to the display main unit that can be located up to 150m away (line of sight). The display unit stores the data over a time range to allow you to monitor and analyse the weather status for past 24 hours. It has advance features such as the HI/LO Alert alarm to alert you while the set high or low weather criteria are met. It allows you to analyse hourly, daily, weekly, monthly and yearly rain fall records. With radio-controlled / atomic clock feature built-in, the system is truly a remarkable personal but professional rain gauge for your own backyard.



- Large backlit LCD display unit
- Total Hourly, Daily, Weekly, Monthly and Yearly rainfall display
- Data logger stores and gathered data to display rainfall
- Graphical histogram display shows variation of rainfall pattern
- SINCE function to display TOTAL rainfall from a date
- Measures temperature
- Real time clock display with Atomic Radio Controlled function
- 150m sensor transmission range
- High / Low Alert function
- Alarm function with ice-alert function

Specifications	XC-0430
Battery	2 x AA size 1.5V batteries (not included)
Support channels wireless sensor (Rain gauge, thermo sensor)	
Dimensions	155(H) x 95(W) x 23(D)mm
Weight	212g



	Cat.	Qty 1+	Qty 3+	Qty 6+
Rain Gauge	XC-0430	\$89.95	\$80.95	\$71.95

TEMPERATURE DATA LOGGER

USB Temperature and Humidity Data Logger

An easy to use temperature and humidity data logger with USB interface. The logger is water resistant so it can be used indoors or outdoors. Big buttons with LCD display to easily change your settings. Stores up to 20,736 readings, and there is capacity gauge to monitor memory usage. Once connected to a computer via USB, the supplied software can read the logged data and export in graphs or CSV files.

- 20,736 readings capacity
- Logging interval from 8 seconds to 4 hours

Specifications	XC-0424
Temperature range	-40°C to 60°C
Humidity range	0%RH - 99%RH
Power	1 x 3V CR2032
Battery life	12 months
Dimensions	87(L) x 60(W) x 19(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0424	\$49.95	\$44.90	\$39.90

WEATHER STATION KEYRINGS

LCD Weather Forecast (Carabiner Fastening)

An mini LCD weather station for mountaineers, hikers, and those in the wilds. This little unit will display temperature, humidity and atmospheric pressure. It will also show the weather forecast and tendency based on the atmospheric pressure measured in the past 12 hours. Min/max readings on temperature/humidity are available at the push of a button and a carabiner is fitted for attachment to gear.

Barometer:

- Resolution of 0.1 hpa/mbar/0.03inHg
- Max / min for pressure
- Pressure history and graphical display for last 12 hours
- Electronic pressure weather forecast (sunny, slightly cloudy, cloudy, rainy)

Thermometer & Hygrometer:

- Max / min temperature memory
- Max / min humidity memory
- Temperature trend indicator
- Humidity trend indicator
- °C / °F selection

Time keeping:

- Clock with 12/24 hour format



Specifications	XC-0394
Pressure range	300 - 1099.9hpa/mbar/ 8.86 - 32.48inHg
Indoor temperature	0°C to +50°C
Indoor hygrometer	20% to 95%
Includes	1 x CR-2032 Lithium battery
Dimensions	54(H) x 45(W) x 22(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Weather Station with LCD	XC-0394	\$29.95	\$26.95	\$23.95

WEATHER STATION COMPARISON GUIDE

Use our selection guide to help choose...

	XC-0394	XC-0366	XC-0400	XC-0348	XC-0369
Touch Screen	-	-	-	✓	-
Indoor Thermometer	✓	✓	✓	✓	✓
Outdoor Thermometer	✓	✓	✓	✓	✓
Min/Max Records	✓	✓	✓	✓	✓
Hygrometer	✓	✓	✓	✓	✓
Wind Speed	-	-	✓	✓	✓
Wind Direction	-	-	✓	✓	✓
Wind Chill	-	-	✓	✓	✓
Dew Point	-	-	✓	✓	✓
Rain Gauge	-	-	✓	✓	✓
Rain Rate	-	-	✓	✓	✓
Barometric Pressure	✓	✓	✓	✓	✓
Moon Phase	-	✓	-	-	-
UV Index	-	-	-	-	✓
Solar Radiation	-	-	-	-	✓
Time/Date Display	✓	✓	✓	✓	✓
High/Low Alarms	-	✓	✓	✓	✓
Transmitter Power	3V CR2032 Battery	2 x AAA	2 x AA	Solar Power	Solar Power
Upload to PC	-	-	-	✓	✓
Built-in Memory	✓	✓	✓	✓	✓
Expandable Memory	-	-	-	-	✓
Transmission Range	-	30m	100m	50m	100m
Page	180	180	180	180	180

WIRELESS WEATHER STATIONS

Compact Wireless Weather Station/Clock/Calendar

This stylish unit features moon phases for the Australian/NZ region. It does not have wind speed/direction but has everything else. It has an external temperature/humidity, barometric sensor, (which really should be on an outside window sill so that you can easily access it for battery change).

It has fantastic time logging:

- Clock, clock alarm/snooze
- Calendar, including Day announcement
- Barometer trend log
- Weather forecast icons: Sunny, Partly Cloudy, Cloudy, Rainy, etc
- Moon phase display (with tide indication)
- Sunrise/sunset time display
- Temperature/humidity display
- Temperature alert alarm



All-in-all excellent value for money.

Specifications	XC-0366
Transmitter frequency	433MHz
Power	2 x AA & 2 x AAA (not included)
Dimensions	Console: 220(W) x 141(H) x 36(D)mm Transmitter: 100(W) x 55(H) x 22(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Compact Wireless Weather Station	XC-0366	\$64.95	\$58.45	\$51.95

CAN YOU TRUST THE BOM (BUREAU OF METEOROLOGY)?

They're not bad, but their weather forecast can end at the adjoining suburb! Find out what's happening in your backyard in **real time** with your own weather station!

Wireless Weather Station with 5.5" Mini LCD

Keep a weather station in the house to get a quick and accurate view of various weather parameters. This unit records temperature, wind chill, wind speed/direction, dew point, humidity and more. It also features alarm modes for temperature, humidity, wind chill and more. Easy to setup, just place the weather sensors outside and keep the LCD inside as a free standing unit or mounted on a wall. Data will be transmitted wirelessly to the display unit over distances up to 100m. It features an LED backlight for greater reading clarity in poor light.

- Records mix/max temperature
- Wind direction
- 12 or 24 hour time display
- Time alarm



Specifications	XC-0400
Temperature range (Outdoor)	-40°C to 65°C (-40°F to 149°F)
Temperature range (Indoor)	-9.9°C to 60°C (-14°F to 140°F)
Windchill	-40°C to 65°C (-40°F to 149°F)
Weather alarm mode	Temperature, humidity, wind chill, dew point, rainfall, wind speed
Wind speed	km/h, mph, m/s, knots, Beaufort
Power	Outdoor sensor requires 2xAA 1.5V LR6 Alkaline batteries and 3 x AA 1.5V LR6 Alkaline batteries for Base station. Power supply included for base station.
Dimensions (Base Station)	172(H) x 119(L) x 31(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with 5.5" Display	XC-0400	\$99.95	\$89.95	\$79.95

AUTO & OUTDOORS

WIRELESS WEATHER STATIONS

WIRELESS WEATHER STATIONS (CONTINUED)

Professional Wireless Weather Station with 5.5" LCD Display



Monitor weather activity from the comfort of your home with this wireless weather station. The main LCD display unit will sit inside and receive data from a 5-in-1 outdoor sensor up to 150m away (line of sight). Measurement capabilities include indoor/outdoor temperature and humidity, rainfall and windspeed. Features hi-lo alarms that will trigger when user defined criteria are met for example, alarm when temperature reaches 40°C. Barometric pressure records are computed to forewarn users of incoming storms, snow, or general sunny/cloudy conditions. Wind speed is available and measured on the Beaufort scale (an international scale of wind velocities from 0 calm to 12 hurricane force). Users can also view records of rainfall including rain rate over daily, weekly, or monthly ranges. Wind chill, heat index, dew-point as well as comfort level readings are also viewable on the LCD. See website for full specifications.

- Dimensions: 140 (L) x 90(W) x 28(D)mm
- Requires 3 x AA Batteries



Indoor Barometer	XC-0410
Barometer units	hPa, inHg, mmHg
Measuring range	850 to 1050hPa
Weather forecast	Sunny/clear, slightly cloudy, cloudy, rainy, rainy/stormy, and snowy
Display modes	Current, max, min, historical data for last 24hrs
Memory modes	Max and min from last memory reset (with time stamp)

Outdoor / Indoor temperature	
Temp unit	°C or °F
Displayed range	-40°C to 80°C (outdoor) / -40°C to 70°C (indoor)
Display modes	Current, min and max, historical data for past 24 hours
Memory modes	Max and min from last memory reset

Outdoor / Indoor humidity	
Displayed range	1% to 99% (outdoor) / 20% to 90% RH (indoor)
Operating range	1% to 99% (outdoor) / 20% to 90% RH (indoor)
Display modes	Current, min and max, historical data for past 24 hours
Memory modes	Max & min from last memory reset (with timestamp)
Alarm	Hi/Lo temperature alert

Rain gauge	
Rainfall unit	mm or inch
Range	0-9999mm (0-393.7inches) ± 7%
Display modes	Rainfall (Rate/Daily/Weekly/Monthly) Historical data for past 24 hours

Wind Speed	
Wind speed units	mph, m/s, km/h, knots
Wind speed range	0-112mph, 20m/s, 180km/h, 97knots
Wind speed resolution	0.1mpg or 0.1 knot or 0.1m/s
Display modes	Gust/average wind speed & direction. Historical data for past 24 hours
Memory modes	Max gust speed with direction (with time stamp)

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Wireless Weather Station	XC-0410	\$159.00	\$142.95	\$126.95

Touch Screen USB Wireless Weather Station with Solar Powered Sensors



A highly advanced weather station with an unbeatable range of features to keep you fully updated on current and future atmospheric activity. The outdoor sensors are simple to install and will wirelessly transmit data to the base station which interprets and displays the data on the touch screen panel. You can also connect the base station to your PC through USB and upload all recorded weather data for more in-depth analysis. Now supplied with a solar panel with rechargeable batteries, it can be installed remotely and never worry about battery replacement. The sensors will read indoor/outdoor temperature, wind speed, wind chill, wind direction, dew point, humidity, rainfall and barometric pressure and is solar powered so you don't have to think about batteries. The weather tendency indicator will inform you of changing conditions based on fluctuating barometric pressure and there are programmable alarm modes for all of the recordable weather conditions so you will know if a storm is coming or if winds are too gusty for your Sunday picnic. All minimum and maximum weather values are recorded with the time and date of recording and are stored on the base station for your reference. Display unit requires 3 x AA batteries.

- Solar powered sensors
- Touch screen LCD panel
- Wind speed / Wind direction / Wind chill
- Dew Point
- Weather forecast tendency arrow
- Weather alarm modes for: temperature, humidity, wind chill, dew point, rainfall, wind speed, air pressure, storm
- Time display hours, mins, date
- 100 year calendar display
- Weather symbols and barometer tendency display
- Perpetual calendar
- LED backlight

Spare part - sold separately
2 x Spare rechargeable alkaline batteries Cat. XC-0348

Specifications	XC-0348
Indoor temperature range	0°C to 50°C +/- 1.0°C
Outdoor temperature range	-40°C to 65°C +/- 1.0°C
Humidity range	10% - 99%
Hygrometer range	1%RH- 99%RH
Rain gauge	0 - 9999mm
Weather history record	Yes
Barometric Pressure	Yes
Frequency	433MHz
Wireless transmission range	50m
Display unit dimensions	230(L) x 145(W) x 35(H)mm
Height of outdoor mast	570mm/with sensors: 630mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with Touch Screen	XC-0348	\$189.00	\$169.95	\$150.95
Spare Battery - Pkt 2	XC-0343	\$9.95	\$8.75	\$7.75

RELATED PRODUCTS

FROM
\$3.95
SB-2900



AA BATTERIES

P279

FROM
\$5.95
QM-7316



DESKTOP THERMOMETER

P456

FROM
\$89.95
XC-0430



RAIN GAUGE

P452

FROM
\$79.95
XC-0331



TANK LEVEL METER

P452

WIRELESS WEATHER STATIONS (CONTINUED)

Professional Wireless Weather Station with 7" Colour LCD & Solar Powered Sensors



A professional grade weather station coupled with a 7" colour LCD that will measure almost anything planet earth can throw at it. It's capable of displaying temperature, wind speed, wind direction, wind chill, barometric pressure, and dew point. You can see how much rain has fallen in 1 hour, a day, a week, or a month, see the current UV index reading, and even see the current lux measurement outdoors which is great for those who have rooftop solar arrays. Install the sensors outside and the readings will be transmitted wirelessly to the base unit up to 100m away.

Minimum and maximum weather values are all recorded along with the corresponding date and time of occurrence. It also features a high/low alarm which will display a visual and give an audible warning when a measurement exceeds or drops below the current record. The threshold for these alarms can be manually configured. The main base is fully solar powered so you need not worry about mains power or constantly adding new batteries. There is a separate indoor sensor that has inbuilt display for temperature, humidity, and barometric pressure.

The interface is beautifully designed and features attractive weather symbols to indicate atmospheric status, everything is clear and easy to read, settings are easily accessible with the buttons on the front of the screen where you can navigate to history, graphs, and setup. The display backlight can be manually turned on/off via the front panel, or automatically at set times so for example it will switch off 8.30pm at night. You can also calibrate values if you happen to notice certain readings are off. Overall a highly functional weather station brimming with features.

- Time and date display (HH:MM:SS)
- Alarm clock
- Display night switch
- Records of all minimum and maximum values with time/date of recordings
- microSD Card memory



CAN YOU TRUST THE BOM (BUREAU OF METEOROLOGY)?

They're not bad, but their weather forecast can end at the adjoining suburb! Find out what's happening in your backyard in **real time** with your own weather station!

Specifications	XC-0369
Outdoor/indoor temperature	-40°C - 60°C / -40°F - 140°F
Outdoor/indoor humidity	1% - 99%
Wind speed	0-50m/s / 0-100mph -(km/h, knot, mph, bft, ft/s, m/s)
Wind gust	km/h, knot, mph, bft, ft/s, m/s
Wind direction	Degrees, cardinal directions
Wind chill	Yes °C / °F
Dew point	Yes °C / °F
Rain gauge	0-9999mm, inch (Daily, weekly, monthly, yearly)
Rain rate	mm/hr, in/hr
Weather forecast symbols	Sunny, partly cloudy, cloudy, rainy, storm
Barometric pressure	300-1100hPa / 8.85-32.5inHg) hpa, in Hg, mm Hg (Absolute, Relative)
UV index	uW/cm2
Solar radiation (lux) meter	0-400k Lux (W/mm2, lux, fc)
Recording interval	1 to 240 mins (tabulated and graphic with zoom)
Wireless sensor transmission range	100m
Mounting hardware	Pole, U bolts, clamps, nuts
Level indicator	Bubble
Display unit dimensions	195(W) x 138(H) x 20(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Wireless Weather Station	XC-0369	\$399.00	\$359.00	\$319.00

Wi-Fi Wireless Station with 7" LCD Display



A professional grade weather station completed with Wi-Fi access. This system is identical to our XC-0369 but with the important ability to upload directly to Weather Underground, the most popular crowd-source powered website for enthusiasts in the world. Once this weather station is registered with Wunderground, you will be able to monitor its readings from anywhere using the freely available mobile apps. You will also receive a personalised 14-day Front Door Forecast for the precise location where you place this weather station, and even get alerts via SMS or email. The website also archives all historical data and gives you the access to read them in graphs and charts. With over 100,000 registered devices world wide, this is by far the largest personal weather station network and is rapidly becoming an industry standard.

Apart from the Wi-Fi feature, this weather station will measure almost anything planet earth can throw at it, as you would expect from a system of this calibre. It's capable of displaying temperature, wind speed, wind direction, wind chill, barometric pressure, and dew point. You can see how much rain has fallen in 1 hour, a day, a week, or a month, see the current UV index reading, and even see the current lux measurement outdoors which is great for those who have rooftop solar arrays. Install the sensors outside and the readings will be transmitted wirelessly to the base unit up to 150m away. Minimum and maximum weather values are all recorded along with the corresponding date and time of occurrence. It also features a high/low alarm which will display a visual and give an audible warning when a measurement exceeds or drops below the current record. The threshold for these alarms can be manually configured. The main base is fully solar powered so you need not worry about mains power or constantly adding new batteries. There is a separate indoor sensor that has inbuilt display for temperature, humidity, and barometric pressure.

The interface is beautifully designed and features attractive weather symbols to indicate atmospheric status, everything is clear and easy to read, settings are easily accessible with the buttons on the front of the screen where you can navigate to history, graphs, and setup. The display backlight can be manually turned on/off via the front panel, or automatically at set times so for example it will switch off 8.30pm at night. You can also calibrate values if you happen to notice certain readings are off.

- Wi-Fi Access
- Upload weather data to wunderground.com automatically.
- Alarm clock
- Display night switch
- Includes 38MB built-in memory
- Records of all minimum and maximum values with time/date of recordings
- Recording interval: 1 to 240 mins (tabulated and graphic with zoom)
- Up to 100m line of sight wireless transmission range
- Uses microSD Card memory (not included) for backup (can accept any capacity microSD card)



Specifications	XC-0422
Outdoor/indoor temperature	-40°C - 60°C / -40°F - 140°F
Outdoor/indoor humidity	1% - 99%
Wind speed	0-50m/s / 0-100mph -(km/h, knot, mph, bft, ft/s, m/s)
Wind gust	km/h, knot, mph, bft, ft/s, m/s
Wind direction	Degrees, cardinal directions
Wind chill	Yes °C / °F
Dew point	Yes °C / °F
Rain gauge	0-9999mm, inch (Daily, weekly, monthly, yearly)
Rain rate	mm/hr, in/hr
Weather forecast symbols	Sunny, partly cloudy, cloudy, rainy, storm
Barometric pressure	300-1100hPa / 8.85-32.5inHg) hpa, in Hg, mm Hg (Absolute, Relative)
UV index	uW/cm2
Solar radiation (lux) meter	0-400k Lux (W/mm2, lux, fc)
Time and date display (HH:MM:SS)	
Mounting hardware	Pole, U bolts, clamps, nuts
Level indicator	Bubble
Display unit dimensions	195(W) x 138(H) x 20(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0422	\$499.00	\$449.00	\$399.00

AUTO & OUTDOORS ENVIRONMENT MONITORS

DESKTOP THERMOMETERS & CLOCKS

Indoor Desk Thermometer

Handy desk or table-top thermometer. Measures degrees Celsius with hi and low memory. Tilting bail for standing on desk purposes.

- Battery included.

Specifications	QM-7316
Range	-20 - 50°C
Dimensions	64(W) x 72(H) x 18(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor Version	QM-7316	\$5.95	\$5.50	\$4.75

LCD Clock with Thermometer

A slimline LCD clock that displays both the time and temperature simultaneously on a large, easy to read display. Stylish design with white face and silver coloured surround.

- Desk or wall mount
- °C / °F selectable
- Temp range: 0°C - 50°C
- Dimensions: 215(L) x 73(H) x 22(D)mm
- 12/24 hour selectable
- Digit height: 35mm
- Requires 2 x AAA batteries



	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Temp	XC-0230	\$24.95	\$22.45	\$19.95

Digital Thermometer for Fridge or Freezer

Keep your fridge at the right temperature all year round. Simply attach the sensor to the desired position in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed Velcro strip. Set your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem.



- No more spoiled food ever again.
- Shows room temperature at the touch of a button as well

Specifications	QM-7209
Room temp range	-10 to 50°C
Fridge temp range	-50 to 70°C
Display size	26(W) x 13(H)mm
Fridge sensor cord	1m
Requires	1 x AAA battery (supplied)
Dimensions	67(W) x 39(H) x 15(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7209	\$24.95	\$22.45	\$19.95

Digital Fridge/Freezer LCD Mini Thermometer

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet. Stylish design with white face and silver colour surround.

- Selectable °C / °F
- Digit height: 23mm
- Temperature range: -19°C to 49°C
- Batteries: 1 x CR2025 included
- Dimensions: 68(L) x 44(H) x 12(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Thermometer	QM-6323	\$9.95	\$8.75	\$7.75

Jumbo Display In/Out Thermometer

One display that shows both the inside and outside temperatures simultaneously. It will also record the minimum and maximum temperatures. The outside temperature sensor is waterproof and is on a 3 metre cable. It also has a tilting bail for standing as well as a keyhole for wall mounting. Jumbo digits for the optically challenged.

Specifications	QM-7310
Temperature range	-39.9°C to 49.9°C
	-39.8°F to 122°F
Battery	Requires AA
Dimensions	95(W) x 140(H) x 22(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM-7310	\$19.95	\$17.95	\$15.95

Wireless In & Out LCD Thermometer

Keep an eye on the outdoor and indoor temperature with ease. This thermometer is comprised of two parts. An LCD display/receiver to keep inside and a wireless outdoor temperature sensor which transmits the outdoor temperature back to the display. Great for monitoring computer server rooms, wine cellars, effectiveness of housing insulation, or for simply wanting to know the differentiation in temperature

- No need to expose the LCD to the elements.

Specifications	XC-0321
Indoor temperature range	0°C to 60°C
Outdoor temperature range	-40°C to 60°C
Display unit requires	2 x AAA batteries
Remote requires	2 x AAA batteries
Transmission frequency	433.92MHz
Receiver dimensions	86(H) x 57(W) x 18(D)mm
Sensor dimensions	68(H) x 50(W) x 21(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer	XC-0321	\$19.95	\$17.70	\$15.70

Jumbo Display Thermometer/Hygrometer

Displays the temperature and humidity together on the one huge LCD display. It also has a min / max function (memory). Switch between °C and °F. Requires AAA battery

Specifications	QM-7312
Temperature	-10° - 60°C (14° - 140°F)
Humidity	10 - 99% +/-5%
Accuracy	+/-1°C, +/-1.8°F
Dimensions	110(H) x 100(W) x 22(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM-7312	\$24.95	\$23.35	\$19.70

Wireless In & Out Thermometer/Hygrometer

An advanced thermometer/hygrometer capable of measuring indoor and outdoor temperature, as well as relative humidity. The large easy to read LCD acts as a receiver unit for a separate outdoor sensor unit. It will record max and minimum temperatures for quick referral and conveniently displays the time of day. Ideal for temperature or humidity sensitive environments such as museums, greenhouses, or to check if your home and office is too dry or moisture laden.

The LCD receiver unit is capable of receiving information from up to 3 sensor units, which are available separately (see Cat. XC-0324).

Specifications	XC-0322
Indoor temperature range	0 + 60°C
Remote temperature range	-45 + 65°C
Humidity range	1% to 99%
Transmission frequency	433.92MHz
Transmission range	Up to 100m open air
Power requirements (receiver)	2 x AA alkaline batteries (not included)
Power requirement (remote)	2 x AAA alkaline batteries (not included)
Receiver dimensions	95(H) x 114(W) x 25(D)mm
Sensor dimensions	51(H) x 63(W) x 25(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer/Hygrometer	XC-0322	\$34.95	\$31.45	\$27.95
Extra Sensor	XC-0324	\$16.95	\$15.25	\$13.55

8 Channel Wireless Thermometer Hygrometer with Jumbo LCD

Useful for monitoring temperature and humidity sensitive areas. An oversized receiver/LCD makes for easy reading, up close and from afar. Displays real-time data, comfort and trend indicators and stores min/max records. Can support up to 8 indoor/outdoor sensors.

- Indoor/outdoor temperature & humidity
- Temperature and humidity trend indicator
- Temperature & humidity min/max records

Specifications	XC-0328
Transmission frequency	433.92MHz
Transmission range	approx 90m
Indoor temperature range	0°C to 60°C
Outdoor temperature range	-40°C to 60°C
Receiver batteries	2 x AAA batteries (not included)
Sensor batteries	4 x AAA batteries (not included)
Dimensions	94(L) x 94(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer/Hygrometer	XC-0328	\$49.95	\$44.90	\$39.90
Spare Thermometer/Hydrometer	XC-0329	\$19.95	\$17.95	\$15.95

LED TORCH COMPARISON GUIDE

The Americans call a torch a 'flashlight'. Why? Because in the early days batteries were so poor and light globes so inefficient, you could only turn the torch on for a second or so, i.e. "flash" to save the battery and still see where you were going in the dark. Well, batteries got better, but torch globes stayed hopeless but at least we could keep the torch on for a while.

Now almost all torches use LED-type globes. LEDs draw about 1/50th the current of old globes so you can leave the torch on all the time. Even better, LED globes are far, far brighter. Even though we have a comparison table below, you will have difficulty making a mistake when choosing a LED torch. They are all good.



Use our selection guide to help choose...

	Lumens	Run time (hour)	Power	Rechargeable	Adjustable Beam	Length x Dia. (mm)	Page
ST-3430	60 x 3	-	6 x AA	-	-	150	457
ST-3483	170	4	1 x AA	-	✓	119 x 33	457
ST-3456	190	2.4	3 x AAA	-	✓	105 x 34	457
ST-3490	370	4	Lithium	✓	✓	150 x 37	458
ST-3475	480	4	3 x AAA	-	✓	118 x 37	457
ST-3498	750	2	Lithium	✓	✓	199 x 53	458
ST-3484	1500	2	Lithium	✓	-	220 x 55	458
ST-3499	2500	2	Lithium	✓	-	244 x 63	453
ST-3463	50	6	4 x LR44	-	-	165 x 20 / 550 x 20	458
ST-3466	90	20	3 x AAA	-	-	165 x 30	458
ST-3486	300	10	2 x AA	-	-	190 x 60	458
ST-3316	600	4	Lithium	✓	✓	170 x 55	460
ST-3323	1500	3	Lithium	✓	-	150 x 90	460
ST-3325	2000	3	Lithium	✓	-	150 x 90	460
ST-3313	700	2.5	Lithium	✓	-	160 x 75	460
ST-3343	280	3	Lithium	✓	-	190L x 100D x 90W	460

LED TORCHES

Torch Three Pack 60 Lumens with 6 x AA Batteries

This is a pack of THREE torches complete with batteries.

They are powerful 60 lumen units. You take them out of the packet, load the batteries, test and put in three separate locations so you are prepared for the next blackout. Better still buy 2 packs and have six separate "hiders".

They represent excellent value.

Batteries included



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
60	ST-3430	\$14.95	\$13.45	\$11.95

TORCHES WITH CREE® LED

This range of Cree® LED torches are all encased in rugged aircraft-grade aluminium that will withstand the rigours of constant use. Tactile

switches are standard allowing for momentary on lighting, perfect for signalling across distances in poor light or for quickly checking a map.



170 LUMEN TORCH WITH ADJUSTABLE BEAM & CREE® XPE LED

Cat ST-3483

190 LUMEN TORCH WITH ADJUSTABLE LENS WITH CREE® LED

- 190 lumens
 - Tactical switch
 - Multiple light modes
 - Adjustable beam
- Cat ST-3456

480 LUMEN 5W TORCH WITH CREE® LED

- Cree® XM-L T6 LED produces a impressive 480 lumens
 - IP65 weatherproof rating
 - Aircraft-grade aluminium
 - Adjust beam light up to 200 metres away
 - Weight 107g without battery
- Cat ST-3475



Specifications	ST-3483	ST-3456	ST-3475
Lumens	170	190	480
Burn Time	Up to 4 hours	2.4 hours	4h/high, 8h/medium, 24h/low
Dimensions	119(L) x 33(Dia.)mm	105(L) x 34(Dia.)mm	118(L) x 37(Dia.)mm
Battery (required)	1 x AA Battery	3 x AAA, batteries	3 x AAA batteries (not included)
Light modes	-	Max, medium, low, SOS, Blinking	5W, 2.5W, 0.5W, SOS, Strobe
Accessories	Carrying Strap	Carrying Strap	Carrying Strap

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
170	ST-3483	\$10.95	\$9.85	\$8.75
190	ST-3456	\$19.95	\$17.95	\$15.95
480	ST-3475	\$34.95	\$31.45	\$27.90

AUTO & OUTDOORS HANDHELD LED TORCHES

LED TORCHES (CONTINUED)

370 Lumen USB Rechargeable LED Torch - Adjustable Beam

A great little LED torch with 370 lumens of bright white light, and a slide adjustable beam to go from a wide flood beam to a narrow spot beam. Features a 2,200mAh lithium ion 18650 rechargeable battery, which you can recharge inside the torch by plugging into any USB port. Charge it off your computer or the charger from your mobile phone - USB charging is literally everywhere! Add to that the tactical style tail cap switch, multiple operating modes (100%, 50%, and SOS) and it's a winner.



Specifications	ST-3490
Lumens	370
Burn time	4 hours (at 100%)
Battery	1x 18650 Li-ion 2200mAh included
Light modes	High, low, SOS
Dimensions	150(L) x 37(Dia.)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
370 Adjustable	ST-3490	\$29.95	\$26.95	\$23.70

1,500 Lumen Rechargeable Torch - Cree® XML LED

Tough, military grade torch featuring the Cree® XM-L LED for superior light efficiency and brightness. This LED boasts a 20% efficiency improvement over Cree® XP-G LEDs. The build quality is superb with comfortable grip indentations throughout the body is o-ring sealed to protect against water, dust, and grime. The aluminium alloy reflector creates a smooth optimised beam. It comes with 2 x rechargeable Li-ion batteries each which can be recharged from the supplied mains charger.



Specifications	ST-3484
Lumens	1,500
Burn time	2 hours
Includes	2 x Li-ion 18650 2200mAh 3.7V rechargeable batteries
Light modes	High, medium, low, flashing, SOS
Accessories	Carrying strap
Dimensions	220(L) x 55(Dia.)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,500 Rechargeable	ST-3484	\$119.00	\$106.95	\$94.95

750 Lumen Rechargeable LED Torch - Adjustable Beam

A fully rechargeable tough aluminium alloy torch for your next hunt, or outback journey. Inside is a powerful Cree® XML2-T6 able to output up to 750 lumens. The torch features a zoom function so targets can be focused on and light modes include high, low, and strobe. This torch can be recharged with the supplied mains charger.



Specifications	ST-3498
Lumens	750
LED	Cree® XML2-T6
Lighting distance	391m
Burn time	2h
Light modes	High, low, strobe
Powered by	1 x 26650 Li-ion battery (included)
Dimensions	199(L) x 53(Dia.)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
750	ST-3498	\$59.95	\$53.95	\$47.90

2,500 Lumen Rechargeable LED Torch

Super bright 2,500 lumen aluminium alloy torch for camping, caving, hunting, or hiking. Fully rechargeable with the supplied mains charger. Ideal for burning the flesh off vampires and other light sensitive creatures.



Specifications	ST-3499
Lumens	2,500
LED	Cree® XML2-U2
Lighting distance	400m
Burn time	1.5- 2hour
Light modes	High, low, strobe
Powered by	2 x 26650 Li-ion battery (included)
Dimensions	244(L) x 63(Dia.)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
2,500	ST-3499	\$139.00	\$124.95	\$110.95

SPECIALTY LED TORCHES

Mini COB Carabiner Light

A pocket sized LED COB (Chip on Board) light that can be attached to a metal surface via the built in magnet or fastened with the attached carabiner. Toggle between high and low level with a maximum of 40 lumens. Available in 4 different coloured casings - red, yellow, blue and silver.

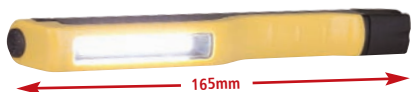


- 1 watt output
- Powered by 2 x CR2032 batteries
- Dimensions: 70(L) x 30(W) x 25(H)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
40	ST-3472	\$4.95	\$4.45	\$3.95

90 Lumen Pen Light with COB LED

A nifty little pen LED light with pocket clip so you can have it illuminate in front of you while keeping both hands free. The COB (chip-on-board) LED provides a wide spread cool white light and runs up to 20 hours using 3 x AAA batteries. Available in yellow and orange colours.



Specifications	ST-3466
Requires	3 x AAA batteries
Burn time	Up to 20 hours (using Alkaline)
Lumens	90
Dimensions	165(L) x 30(D) x 16(W)mm

Product available in yellow and orange

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
90	ST-3466	\$9.95	\$8.75	\$7.75

BATTERIES

In the past, with incandescent globes there was a good case for professional users (night watchmen, etc.) to use rechargeable batteries in torches. Nowadays, with LEDs drawing such a small amount of current, it's hardly worthwhile. If you use a good Alkaline or non-rechargeable Lithium battery you can get years of life in occasional-use applications so why bother with rechargeable?

6 x Olson Osram LED Torch

High brightness torch featuring 6 x ultra bright warm white Olson Osram LEDs. Great addition to your fishing tackle box or keep one in the car for emergency situations. Bright yellow plastic so it doesn't go missing.



- Requires 4 x AA batteries
- Dimensions: 190(L) x 60(Dia.)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	ST-3486	\$19.95	\$17.70	\$15.70

Super Bright LED Torch with Magnetic Head & Telescopic Neck

A pen-sized torch with super bright LEDs and magnetic head for picking up objects. The torch head is attached to a telescopic mast hidden away inside the casing. Fully extended the torch has a total length of 546mm allowing your search into cracks and crevices. A gooseneck at the end allows you to shine light around corners & pick up metallic objects out of reach.



- Requires 4 x LR44 batteries (included)
- Dimensions: 165(L)mm to 550mm (neck fully extended); 20mm torch head diameter



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
50 Telescopic	ST-3463	\$12.95	\$11.35	\$10.35

LED HEAD TORCH COMPARISON GUIDE

Use our selection guide to help choose...

	ST-3209	ST-3211	ST-3213	ST-3298	ST-3299	ST-3467
Lumens	80	120	260	550	550	1,200
Run Time (hour)	5	4	7	4	4	4
Power	3 x AAA	3 x AAA	3 x AAA	4 x AA	Lithium	Lithium
Rechargeable	-	-	-	-	✓	✓
Adjustable Beam	-	-	✓	✓	✓	-
Length x Dia. (mm)	60W x 45H x 35D	57W x 40H x 44D	60W x 40H x 65D	80W x 70H x 55D	80W x 70H x 55D	54 x 42
Page	459	459	459	459	459	459

LED HEAD TORCHES

80 Lumen LED Head Torch with 2 Red LEDs

This multi-function head torch with adjustable head band includes a 3 watt white LED and 2 high brightness red LEDs. The ratchet in the headband tilts the light to where you need it. Use the power button to toggle between four light modes.

- Light Modes: High beam white, low beam white, continuous red, flashing red
- 3W
- Requires 3 x AAA batteries
- Dimensions: 60(L) x 45(W) x 35(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	ST-3209	\$9.95	\$8.75	\$7.75



120 Lumen Ultra Bright COB Head Torch

This COB (Chip on board) head torch provides a very bright, wide, and uniform 120 Lumens of light (unlike other LEDs that emit directional light). COB LED technology has increased efficiency and life span when compared to other LED technology. Great for tinkering on the car at night, cooking snags on the campfire, in around the campsite, or just reading a book. Incorporating a comfortable and adjustable elastic strap. Made from shock resistant ABS plastic, this unit is built to last.

Specifications	ST-3211
Light modes	High and Low
Brightness	120 Lumens
Batteries	3 x AAA required
Dimensions	57(W) x 44(D) x 40(H)mm
Weight	67g with batteries

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST-3211	\$12.95	\$11.35	\$10.35



260 Lumen Adjustable Head Torch with Cree® LED

Cree® LEDs are the last word in illumination and 3W of power will really light up your world. Three modes of operation - high, low and strobe. The beam can be focused quickly from wide to spot by simply sliding the zoom in or out. Comfortable elasticised head strap. Camping, caving, fishing etc.

Specifications	ST-3213
Light Output (lumens)	260 lumens
Burn time	7hrs
Light modes	High, low, strobe
Water resistant	Yes
Batteries	3 x AAA (not included)
Dimensions	65(D) x 60(W) x 40(H)mm
Weight	105g with batteries

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
260	ST-3213	\$19.95	\$17.95	\$15.95



550 Lumen Head Torches with Adjustable Beam & Cree® XML LED

Light up the way when hiking, camping, caving, or when working on your car or boat. Will output 550 lumens of bright white light which is more than enough for all of the above and more. The headstrap is adjustable and the light beam can be adjusted to suit your needs. To operate simply press the push switch on the battery pack mounted on the back of the head strap.

- Dimensions: 80(W) x 70(H) x 55(D)mm

Two models available

550 LUMEN HEAD TORCHES WITH ADJUSTABLE BEAM AND CREE® XML LED

Specifications	ST-3298
Battery	Requires 4 x AA batteries
Lumens	550
Burn time	4 - 5 hours
Light Modes	High, dim, flashing

ST-3298



RECHARGEABLE 550 LUMEN HEAD TORCHES WITH ADJUSTABLE BEAM AND CREE® XML LED

- Rechargeable 18650 Li-ion battery, charger and mains power supply are included

Specifications	ST-3299
Light Modes	High, dim, flashing
Lumens	550
Burn time	4 - 5 hours
Recharge time	4 hours

ST-3299

⬆	Lumens		Cat.	Qty 1+	Qty 10+	Qty 25+
	550	Takes 4 x AA Batteries	ST-3298	\$29.95	\$26.95	\$23.70
	550	Rechargeable	ST-3299	\$49.95	\$44.90	\$39.90

1,200 Lumen Rechargeable Head & Bike Torch Kit

Providing up to 1,200 lumens of intense white light, this head torch is the ideal safety addition for any cyclist. Not only limited to cycling, it's also excellent for caving, mountain climbing, camping, mining etc. It connects to a Li-ion battery pack which will provide up to 20 hours of use with the light at 40% brightness. The 3 x Cree® XML LEDs life expectancy is over 100,000 hours and is water resistant, ensuring that it will outlast the elements.

- Comes with 2 (small and large) flexible rubber mounts for securely attaching the torch to your bike handlebars
- Mains charger included.

Specifications	ST-3467
Light modes	High, medium, low, flashing
Mount	Handlebars, Headstrap
Water resistant	Yes
Lumens	1200
LED Life	100,000 hours
Burn time	20hrs on low brightness
Recharge Time	3.5 Hours
Dimensions	54(L)mm x 42(Dia.)mm, 225g

↑ Lumens	Cat.	Qty 1+	Qty 10+	Qty 20+
1,200	ST-3467	\$89.95	\$80.95	\$71.95



AUTO & OUTDOORS HAND SPOTLIGHTS

LED SPOTLIGHTS

600 Lumen Rechargeable LED Spotlight with Adjustable Beam

An LED spotlight that's glove box friendly, but still bright enough to be properly considered a spotlight. With a bright 600 lumens of clean white light delivered by the Cree® XM-L LED, it can light up objects up to 500m away when adjusted to the tight spot beam. You can then adjust the beam to a wide, even flood beam when you need to light up a wide area. It is shock and vibration resistant, and of course weatherproof (IP65 rated) so you can use it in the rain. Nice and compact, light in the hand, and lasts for hours. Powered by 3 x 18650 Li-ion batteries, and includes mains and car chargers.

Specifications	ST-3316
Light output	600 lumens
Beam distance	up to 500m
Burn time	4 hours (high), 24 hours (low)
Battery	3 x 18650 Li-ion 2,200mAh included
Light modes	high (100%), low (20%)
Dimensions	170(L) x 91(H) x 55(W)mm
Weight	500g



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
600	ST-3316	\$84.95	\$76.45	\$67.95

Rechargeable LED Spotlights with Cree® XML LEDs

These rechargeable spotlights with brand-new Cree® XML LEDs offers powerful lighting wherever required. Two models available: ST-3323 with 3 LEDs and ST-3325 with 6 LEDs. Lights feature three modes of functioning; high, low and strobe. Specially designed to meet portability, durability, and reliability. The body is made by high quality CNC aluminium, good heat sink, the torch head is made of stainless! Supplied with mains power adaptor.



Specifications	ST-3323	ST-3325
LED type	3 x 10W Cree®	6 x 10W Cree®
Functioning modes	High, low and strobes	High, low and strobes
Lumens	1500	2000
Distance	350m	400m
Running time	3 hours	3 hours
Battery type	4 x 18650 Li-ion batteries (included)	3 x 26650 Li-ion batteries (included)
Dimensions	150(L) x 90(W) x 90(D)mm	150(L) x 90(W) x 90(D)mm
Weight	406g	552g

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,500	ST-3323	\$129.00	\$115.95	\$102.95
2,000	ST-3325	\$169.00	\$151.95	\$134.95

700 Lumen Waterproof Rechargeable Spotlight with Cree® XM-L2 LED

At the press of the trigger the powerful Cree® LED outputs up to 700 lumens of bright white light up to 440m! It is waterproof down to 1m and floats, which makes it ideal for boating, hiking, camping or roadside emergencies. Designed with a polycarbonate body with shock-absorbent rubber head for use with confidence in mind.

Features a built-in stand for hands-free operation, a carrying strap (included), and a safety lock to prevent unwanted on/off activation. Charge the built-in Li-Po rechargeable battery via Micro B USB.

Supplied with: Micro B USB

- XM-L2 Cree® white LED- up to 700 lumens
- Produces 440m beam throw
- 4 Lighting modes - high, medium, low, 2Hz flashing
- Safety lock prevents unwanted On/Off activation
- Built-in adjustable stand for hands-free operation
- Buoyant & submersible
- IP67 Waterproof & Dustproof

Specifications	ST-3313
Battery	Built-in 3.7V 3000mAh Li-Po Rechargeable
Charging time	5hrs
Burn time	2.5 hours to 15 hours (depending on mode)
LED type	1 x XM-L2 Cree® White
Dimensions	160(H) x 146(L) x 75(Dia.)mm
Weight	406g



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
700	ST-3313	\$109.00	\$97.95	\$86.95

280 Lumen 4 in 1 Camping Spotlight

A versatile hand held rechargeable worklight for multiple applications around the campsite or backyard. It has a 280 lumen COB Cree® XPG R5 main LED located on the front, which can be set to 280 lumens or 140 lumens for a longer burn time. One side has 12 x SMD2835 LEDs with bright and dim modes for ambient light, and the other side has 12 x SMD2835 LEDs, which produces a flashing red light for emergency situations. Charge via its USB port using the supplied 80mm USB cable. Also this unit has a USB output socket, enabling you to charge a phone or other electronic device. The worklight features an attached handle that can be rotated 180°, and can also be used hand free using the stand attached to the bottom.



Specifications	ST-3343
Main light	
Type	1 x Cree® XPG R5
High	280 lumen, runtime: 3 hours
Low	140 lumen, runtime: 6.5 hours
Side light	
LED type	12 x SMD2835 LED
High	80 lumen, runtime: 5-6 hours
Low	45 lumen, runtime: 24 hours
Side light flash	
LED type	12 x SMD2835 LED
Modes	flash
USB charge input	5V 1000mA
USB output	5VDC 1.5A
Battery type	Built-in 2 x LC18650 3.7V 2200mAh Li-ion batteries
Charging time	7.5 hours
Dimensions	190(L) x 100(D) x 90(W)mm
Weight	410g

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
280	ST-3343	\$54.95	\$49.45	\$43.95

HALOGEN SPOTLIGHT

5,000,000 Candlepower Rechargeable Spotlight with Swivel Handle

This powerful and compact hand-held spotlight provides 20 minutes continuous operation. It has an integrated multi-position rubber grip for a more comfortable grip and also has a dual LED complementary light. Comes with mains power adaptor and cigarette lighter charger.



- Swivel Handle & stand with hanging hole
- Bumper guard ring
- High polished reflector
- 6 volt H3 55W Halogen bulb

Specifications	ST-3303
Light power	5,000,000 Candlepower
Globe	6V H3 55W Halogen
Features	Swivel handle
Dimensions	260(L) x 175(W) x 180(H)mm



↑ Candlepower	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
Torch 5,000,000	55	ST-3303	\$34.95	\$31.45	\$27.90
↑		Cat.	Qty 1+	Qty 10+	Qty 25+
Replacement Globe		SL-3221	\$5.95	\$5.25	\$4.75

HID SPOTLIGHT

35W High Intensity Discharge (HID) Spotlight

Price Breakthrough! At last, a powerful HID hand-held spotlight for under \$100! This full-feature unit includes inbuilt rechargeable SLA battery, 240V AND 12V charger and swing away stand. It also includes a dual-led map light

- 35W HID bulb
- 30 million candlepower
- Amazing beam distance
- Reflector dia. massive 135mm
- 280(L) x 190(D) x 140(W)mm (less reflector)
- * In Australia



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
35W HID	ST-3379	\$99.95	\$89.95	\$79.95
Spare Battery	ST-3397	\$24.95	\$22.35	\$19.70

LANTERNS

150 Lumen Mini LED Lantern with Magnet & Hook

A versatile mini portable LED lantern which can sit flat on a table, mount to a metal surface with the built-in strong magnet, or hang using the nifty fold-out hook with clip. A push button in the base cycles the light through high, medium and low brightness, as well as slow or fast flash when used as a safety light. The frosted lens provides an evenly spread light. Perfect for garages, closets, camping, boating, fishing and so on.

- Light source: 3 high brightness LEDs
- Power: Requires 3 x AAA batteries
- Dimensions: 65(Dia.) x 37(D)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
150	ST-3424	\$10.95	\$9.85	\$8.75

300 Lumen LED Lantern

This is a fantastic lantern for the serious camper. The first thing you notice is its solid and rugged construction, which is IPX4 rated so it can handle being left out in light rain. The illuminated push button switch cycles through 100%, 50% and 25% brightness, and holding the switch for two seconds toggles a red LED, perfect for night time use. One more press of the switch makes the red LED flash an SOS pattern if you are in trouble. Features non-slip carry handle, fold-out metal hang clip and non-slip rubber base and runs for up to 15 hours from 3 high capacity D cell batteries.

Specifications	ST-3422
LEDs	4 x Cool White LED + 1 x Red LED
Brightness	15,000 - 16,000mcd
Lumens	300 max
5 brightness modes	White - 100%, 50%, 25%, red - 100%, flashing
Battery	Requires 3 x D batteries - alkaline recommended
Waterproof	IPX4
Dimensions	180(H) x 95(Dia.)mm
Weight	560g



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	ST-3422	\$24.95	\$22.35	\$19.70

600 Lumen Rechargeable LED Lantern with Powerbank with Cree® XML LED

A super bright rechargeable LED Lantern that saves you from carrying costly replacement batteries. It features a powerful Cree® XML LED that produces a bright 600 lumens of cool white light with adjustable light intensity and a flashing option if you need to draw attention. It also has USB output to charge your portable devices without the need for mains power. It is in a double moulded shock resistant case, perfect for a campsite, backyard or outdoor entertainment area. Supplied with mains and car cigarette charger.

Specifications	ST-3139
Colour Temperature	Cool White
Weatherproof IP Rating	IP44
Light Modes	Medium / High / Flashing / Off
Battery	Built-in 12,000mAh Li-ion
USB Output	5VDC, 1.0A max.
Burn time	Up to 7 Hours (High)
Dimensions	245(H) x 133(W) x 118(D)mm
Weight	978g



USB Port



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
600	ST-3139	\$99.95	\$89.95	\$79.95

600 Lumen LED Lantern with Cree® XML LED

A super bright LED Lantern using the powerful Cree XML LED. Features a Cree a blinding 600 lumens of cool white light with adjustable light intensity and flashing options. It is in a double moulded shock resistant case, perfect for a campsite, backyard or outdoor entertainment area.

- Cool White
- Weatherproof (IP44)
- Requires 6 x D batteries

Specifications	ST-3137
Multifunction	High / Medium / Flashing / Off
Burn time	Up to 7 hours (High)
Weight	780g
Dimensions	240(H) x 125(W) x 125(D)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
600	ST-3137	\$35.95	\$31.45	\$27.90

Waterproof Solar LED Lantern

This solar powered rechargeable camping lantern can also be used as a waterproof storage compartment to keep your valuable possessions dry (first aid items, mobile phone, matches etc). It also floats so you won't lose it if it falls into a body of water!

- 100 Lumens
- 3 modes - low, high, flashing
- 5hr low, 12 hour high burn time
- Removable carry handle
- High quality silicone based construction
- Includes a USB cable for direct charging
- Dimensions: 167(H) x 100(Dia.)mm
- Weight: 200g



↑ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
100	Green	ST-3152	\$19.95	\$17.95	\$15.95
100	Blue	ST-3153	\$19.95	\$17.95	\$15.95
100	White	ST-3154	\$19.95	\$17.95	\$15.95

Universal Goose Neck Work/Camping Light

Equipped with a magnet on the base and a flexible gooseneck, this powerful COB LED lamp can be attached and positioned to project the light to exactly where you want it.

- 1W power consumption
- 120 lumen output
- Powered by 3 x AAA batteries (not included)
- Dimensions: 200(L) x 30(Dia)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST-3470	\$12.95	\$11.35	\$10.35

BIKE, CYCLE & SAFETY LIGHTS

Super High Brightness LED Bike Safety Light

Mount this light on your bicycle to be seen and to be safe. This light features 10 LEDs in two rows of 5. Each row of LEDs can be controlled individually. Row light modes include steady on, flashing, and fast/slow light oscillation. Or alternated, so one row can be steady on while the other row is flashing or any combination of the functions. It also includes an internal reflector which helps intensify the brightness of the LEDs.

- Requires 2 x AA batteries
- Dimensions: 95(L) x 85(W) x 40(H)mm



↑ Bike Safety	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3083	\$9.95	\$8.75	\$7.75

Flexible LED Safety Lights - Pair

A pair of handy press-down LEDs that have two modes of operation, blinking and constant on. A great little accessory to enhance your personal safety while riding a bike at night. Each LED is encased in flexible silicone that can be wrapped around bicycle handlebars or a helmet strap.

- Each unit includes 1 x CR2032 battery
- Dimensions: 75(L) x 29(W) x 29(H)mm



↑ Pair	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3136	\$9.95	\$8.75	\$7.75

Rechargeable Bike Air Horn

For when the bike bell isn't loud enough. This Canadian-made product can be recharged with the nifty air pump supplied. (It can also pump-up push bike tyres.) You pump up the air reservoir (which looks like a PET bottle but is much stronger) and you then have a VERY loud 120dB! horn warning/alerting device. Each recharge lasts about 50 short blasts.

- Volume control switch
- Handle bar mount (24 - 31mm)
- 800mm hose length
- Weighs under 100g



↑ Bike Air Horn	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1113	\$49.95	\$44.90	\$39.90

AUTO & OUTDOORS LED CABIN LIGHTING

12/24VDC CABIN/CARAVAN LIGHTING

LED lighting fixtures are ideal for areas that would be a hassle if you did not have mains power. LED lights draw such a small amount of current for their light output battery power (generally AA cell is all that is necessary).

Indeed many fixtures have inbuilt battery compartments or simply require a 12V source.

Mini LED Light

Pre wired in a sleek and compact design, this is a perfect mini LED light for illuminating harsh areas. Using new advanced lens technology the LEDs increase light output for optimal lighting with minimal power. The 12 volt light draws 10% of the power of conventional lights. Sealed stainless steel construction allow for placement in tight spaces and harsh environments. Horizontal and vertical mounts provide a variety of mounting options. Can be used in step, board, accent lighting as well as marine applications!

- White powder coated finish
- 12VDC
- Dimensions: 39(W) x 12.7(H) x 12.7(D)mm



↑ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
24	ST-3193	\$15.95	\$14.35	\$12.75

Window Mount Solar Rechargeable LED Puck Light

Designed to suction cup mount onto a window so that the rear mounting solar panel charges the internal battery during the day. Turn on the 3 x built-in bright white LEDs by simply pressing the front lens, press again to turn off.

- Solar rechargeable
- Easy one-touch ON/OFF operation
- Battery type: Built-in Ni-MH
- LED colour: Cool white
- Dimensions: 72(Dia.) x 23(D)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
10	Cool White SL-3500	\$9.95	\$8.75	\$7.75

12 White LED Roof Mount Interior Lamp

Simple to install and use LED roof lamp for your motorhome, truck, or boat.

- 12 high brightness cool white LEDs and a on/off switch.



Specifications	SL-3452
Power	12V
Colour	Cool White
LED	12 x LED
Light Output	140 Lumens
Dimensions	185(L) x 126(W) x 25(H)mm

↑ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
140	Cool White	SL-3452	\$29.95	\$26.90	\$23.70

An interesting development has been the 'NOOK' lights on page 465. All units can be wired by DIY handy people. They are 12V safe or battery. They are idea for caravans, sheds, boats – even cubby houses.

With these products you never need to be scared of the dark again!

Circular 36 LED - 190 Lumen Cabinet Light - Touch Switch

A stylish and compact LED Cabinet Light suitable for caravan, marine, 4WD, auto and domestic applications. Touch the aluminium casing to turn the light on and off. Screw mounting holes in base hidden behind removable aluminium trim for neat and easy installation.



Specifications	ST-3915
Input voltage	9 - 30VDC (works on 12V and 24V systems)
Uses	36pcs of 3528 SMD LEDs
Lumens	190
Light Output	90°
Power Consumption	3W
Colour Temperature	Cool white 5500K
Dimensions	70(Dia) x 9(H)mm

↑ Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
190	Cool White	ST-3915	\$34.95	\$31.45	\$27.90



PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

Remote Controlled LED Puck Light Kit with 3 Lights

This set of 3 puck lights are remote controlled so you can illuminate an area without the need to find the light in the dark to turn it on. Also good for areas where the light is out of reach. Each light has 6 x 2835 SMD cool white LEDs produce a total of 35 lumens.

They can be used in kitchens, on shelving, in closets or even in the workshop - Virtually anywhere!

The supplied remote control has four buttons - ON / OFF / 30min timer / 50% Brightness.



Specifications	SL-3502
LED type	2835 SMD
Lumens	35 each
Remote control distance	10 metres
Battery	Each light requires 3 x AAA batteries
Dimensions:	104(L) x 72(W) x 29(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
35 x 3	SL-3502	\$29.95	\$26.95	\$23.70

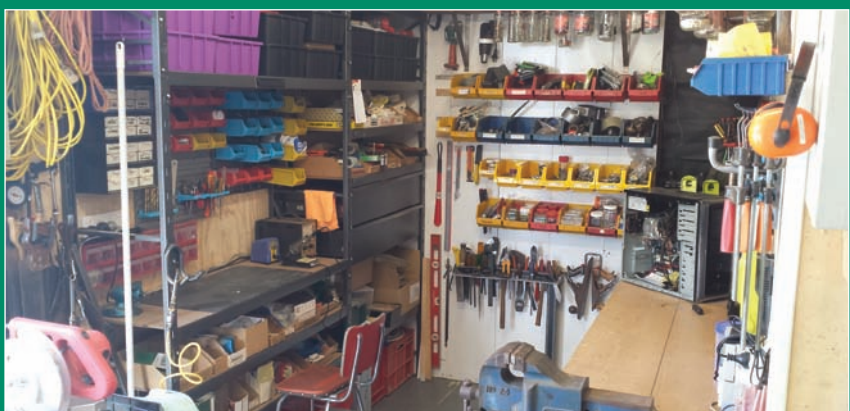
Workbench sent to us by: Ray Jaycar Store: Hamilton

It is a small space in the corner of the garage so everything needs to be tidy.

I like having the right tool for the job so there are plenty of those. The problem is I never throw anything out as it may come in handy one day :-)



For more details, visit:
www.jaycar.com.au/workbench



12/24VDC CABIN/CARAVAN LIGHTING (CONTINUED)

Solid High Power IP67 LED Ceiling/Deck Light

This LED light is probably the toughest and brightest we've discovered in our search for the best in LED lighting. Made with powder coated die cast aluminium alloy, fitted with ten 3W Epistar LEDs sealed in resin, and using high quality American brand driver circuitry with pulse width modulation, this light is perfectly suited to marine environments or any other outdoor location totally exposed to the elements.

- Install can be either as a surface mount using the supplied mounting ring and gasket, or flush mount requiring just 10mm of mounting depth

Specifications	SL-3480
Input voltage	9-36VDC
Power	30W
Lumens	1600 lumen
Beam type	flood (120° angle)
LED type	10x Epistar 3W
Operating temp	-30°C to 50°C
Dimensions	217(Dia.) x 16(H)mm



↑ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
1600	Cool White	SL-3480	\$129.00	\$115.95	\$102.95

Ceiling Lamps with Switch

A fixed installation ceiling lamp suitable for a caravan, boat, truck, or even a car. The LEDs sit behind a diffuser to help spread the light evenly. Mounting holes on the backing will allow attachment to the roof.

12 LED Cat. SL-3460

30 LED Cat. SL-3461

Dual light intensity feature.



Specifications	SL-3460	SL-3461
Power	12/24VDC	12/24VDC
Colour	Cool white	Cool white
LED	12 x LEDs	30 x LEDs
Light output	280 Lumens	320 Lumens
Dimensions	404(L) x 88(W) x 28(H)mm	398(L) x 108(W) x 31(H)mm

↑ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
280	Cool White	SL-3460	\$59.95	\$53.95	\$47.95
320	Cool White	SL-3461	\$79.95	\$71.95	\$63.95



3W Gymbal LED Spotlight Flush Mount

A flush mount LED spotlight suitable for caravans and boats. It produces a bright cool-white light in a gymbal mount/bracket for optimum directivity. An on/off rocker switch fitted. Negligible current draw.

Specifications	SL-3472
LED	1 x 3W LED
Output	165 Lumens
IP rating	IP66
Power	12-24VDC
Requires	52 Dia. Cut-out



↑ Lumens	Colour	Cat.	Qty 1+
165	Cool White	SL-3472	\$24.95

Waterproof Ceiling Mount LED Light

Improve the illumination in your caravan, car, truck or boat with this ceiling mount LED light. Waterproof and easy to install, the 42 high brightness LED's add more than enough light for your interior.

Specifications	SL-3448
LED	42
Output	4.2W
IP rating	IP66
Power	12-24VDC
Dimensions	145(Dia.) x 28(H)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
200	SL-3448	\$39.95	\$35.90	\$31.90

6 x White LED Awning Light

A simple to install light to provide illumination under a caravan or boat awning.

- Features two mounting holes on either edge and should be wired up to an on/off switch.

Specifications	SL-3459
Input voltage	12 - 24VDC
LED	6 x Cool white LED
Light output	140 Lumens
Dimensions	250(L) x 85(W) x 35(H)mm

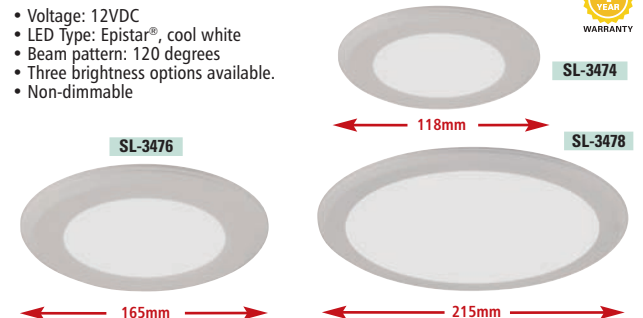


↑ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
140	Cool White	SL-3459	\$29.95	\$26.95	\$23.95

Ultra-Slim LED Panel Cabin Roof Lights

These stylish lights are just 7mm thick. Mount them to the roof of your caravan, RV or boat for a bright, cool white light around the cabin. The side-lit LED panel design produces an evenly spread light. They are easy to install and mounting hardware is included.

- Voltage: 12VDC
- LED Type: Epistar®, cool white
- Beam pattern: 120 degrees
- Three brightness options available.
- Non-dimmable



Specifications	SL-3474	SL-3476	SL-3478
Lumens	350	590	680
Power consumption	6W(500mA)	8W(660mA)	10W(830mA)
Dimensions	118(Dia.) x 7(D)mm	165(Dia.) x 7(D)mm	215(Dia.) x 7(D)mm

↑ Lumens	Dia.	Cat.	Qty 1+	Qty 5+	Qty 10+
350	120mm	SL-3474	\$34.95	\$31.45	\$27.90
590	165mm	SL-3476	\$44.95	\$40.45	\$35.90
680	215mm	SL-3478	\$59.95	\$53.95	\$47.95

RELATED PRODUCTS

12VDC Touch Switch Controller With 3 x Touch Switches

Add three sleek and unobtrusive touch switches to control 12VDC LED lighting in your caravan, car, or boat. Just connect a 12VDC power supply or wire in power yourself. Each switch will control the same device so you can install the switches in convenient locations.

Specifications	ST-3942
Rated Current	3A
Standby Power	6W
Rated Power	550W
Dimensions	59(L) x 39(W) x 13(H)mm
Touch switch wire length	150(L)mm



↑	Cat.	Qty 1+
	ST-3942	\$24.95

12VDC Switch Controller with PIR Sensor

Add some power automation to your caravan or boat. This simple device to switch on lights or other 12VDC powered devices when movement is detected. Able to be connected to a 12VDC power supply or you can wire in power yourself if you need a more customised install.

Specifications	ST-3940
Max switching load	12VDC 3A
Detection Range	1-3m
Switch on time	30 seconds
PIR Wire Length	150(L)mm
Dimensions	59(L) x 39(W) x 18(H)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-3940	\$24.95	\$22.45	\$19.95

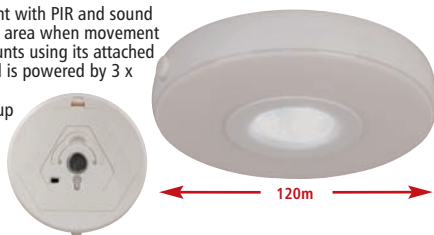
AUTO & OUTDOORS LED WORKLIGHTS

SENSOR LIGHTS

LED Puck Light with PIR

Easy to install LED Puck Light with PIR and sound sensors to illuminate a dark area when movement or sound is detected. It mounts using its attached hook or magnetic base, and is powered by 3 x AA batteries so no wiring is required. Ideal to brighten up hallways, stairways, cupboards, garage, etc.

- LED type: 12 x SMD LEDs
- PIR sensor distance: 5m
- Lumens: 100
- Battery: Requires 3 x AA batteries
- Dimensions: 120(Dia.) x 24(D)mm



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
100	SL-3504	\$14.95	\$13.45	\$11.95

NOOK LIGHTS

Due to the massive efficiency of LED coupled with miniaturised movement detectors a whole new class of convenient and compact lighting gadgets have become available. These very compact devices can fit in a small dark space and light it up for you and turn off automatically when you depart. There is no need for expensive mains wiring to be fitted. They all work from low cost penlite-type batteries which can last for years. You can stick them anywhere with double-sided tape or even hang them from a nail driven in a wall. They are ideal for clothes cupboards, shower recesses (safe), pantries, in boats, caravans and motor homes.

Ultra-Compact LED Sensor Light

This unit measures only 80 x 75mm square and 28mm deep. It runs on 3 x AA batteries (not supplied) and has a keyhole mounting slot so only one screw (No. 6 self taper) is required.

- Attractive 2-tone case (black/white)
- Sensor on-time 60secs approx.
- Our smallest unit



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
18	SL-3505	\$14.95	\$13.35	\$11.70

Extra Bright LED Sensor Light

This unit is tubular in outward appearance, measuring 255(W) x 22(Dia.) x 30(H)mm. It features a sturdy, stainless steel mounting bracket. The design allows the light to rotate even though the bracket is screwed to a surface. The movement detector rotates on the same axis as the 9x High efficiency white LEDs. (The LEDs sit behind a diffuser for even light. The unit is powered by 3 x AA batteries (not supplied). Sensor on time 60 seconds approx.



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	SL-3506	\$19.95	\$17.95	\$15.95

Compact Swivel LED Sensor Light

This unit, which is moulded in an attractive gun metal grey plastic, measures 178 (W) x 60(D) x 23 (H)mm. It contains space for 3 x AAA batteries (not supplied) but also has a DC socket for a 4.5V mains adaptor. A separate fitting allows screw fitting to a flat surface. The swivel-adjustable movement detector has 6 x high-efficiency white LEDs in the same housing. Sensor 'on' time 60 seconds approx.



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
22	SL-3507	\$19.95	\$17.95	\$15.95

Hook Mount LED Sensor Light

This unit which measures 300(W) x 30(H) x 23(D)mm features an adjustable movement detector. It has ON/OFF/AUTO (movement detector switched on auto) and a bright light thanks to a bar of 5 x white high efficiency LEDs. It is powered by 6 x AA alkaline cells (not supplied). White in colour overall. It also has a large hanging hook (which is big enough to fit over a clothes railing). An ideal clothes wardrobe light. Sensor on time 60 seconds approx.



↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
200	SL-3508	\$24.95	\$22.45	\$19.95

WORKLIGHTS HANDHELD

100 Lumen Compact LED Worklight

Keep it in the glove box, toolbox, back of the car, kitchen drawer, or anywhere you think you might need to keep such a neat and compact little work light. With 100 lumens of light from 20 SMD LEDs, it has enough light to help find the hidden bolts in your engine bay, or to even be used to light up inside your tent while camping. Features a fold out hook for hanging, and an adjustable arm with magnetic base to attach it to any metal surface. Also has 3 x LEDs at the top to use as a torch.



- Powered by 3 x AAA batteries (included)
- Dimensions:
With hook folded: 98(H) x 67(W) x 34(D)mm
With hook extended: 138(H) x 67(W) x 34(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
100	ST-3270	\$9.95	\$8.75	\$7.75

180 Lumen COB LED Auto Worklight

A must have handy worklight for every toolbox, workshop or glove box. This versatile worklight can be used comfortably by hand or hands-free using the flip-out hook or strong magnets in the base that adjusts 180° for the best angle. The worklight also doubles as a hand torch using the 6 x white LEDs in the end. Features a chip-on-board (COB) LED for an evenly spread light, switch to toggle between worklight or torch, and a soft rubber finish.



- LED type: 3W COB
- Brightness: 180 lumens
- Battery type:
Requires 3 x AA batteries
- Dimensions:
183(L) x 60(W) x 33(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
180	ST-3272	\$15.95	\$14.35	\$12.75

250 Lumen Rechargeable Auto Worklight with COB LED

A rechargeable worklight for every toolbox, workshop or glove box. It can be used comfortably by hand or hands-free using the flip-out hook, strong magnets in the base, or magnets in the swivel stand that adjusts 180° for the best angle. The worklight also doubles as a hand torch using the white LEDs in the end. Features a chip-on-board (COB) LED for an evenly spread light, switch to toggle between worklight or torch, has a soft rubber finish. Charge using the supplied mains charger.



- LED type: 3W COB + 0.5W LED
- Brightness: 250 lumens
- Battery type: Built-in 1200mA Lithium rechargeable
- Burn time: 4 to 5 hours
- Dimensions: 220(L) x 60(W) x 45(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
250	Rechargeable ST-3274	\$39.95	\$35.90	\$31.90

300 Lumen Rechargeable COB LED Auto Worklight

A rechargeable worklight that utilises the new COB (chip on board) LED technology which packages the LED chips together. When illuminated it looks like a single lighted panel rather than an array of LEDs which can at times be glaring to look at. The packing together of LEDs also means greater light output per square cm. This unit comes with a recharging dock and can be recharged from a 230VAC or 12VDC source. Can be used in car repairs, roof insulation work, camping, travel and more.



Specifications	ST-3262
LED	Chip On Board
LED colour	Cool white
Recharge time	3.5 - 4 hours
Burn time	Up to 4 hours
Lumens	300
Batteries	3.7V Li-ion included
Dimensions	288(L) x 60(W) x 45(D)mm

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	Rechargeable ST-3262	\$69.95	\$62.95	\$55.95

SEARCH LIGHTS

3200 Lumen HID Spot/Search Light with Remote Controlled Pan/Tilt

At the touch of a button pan and tilt a powerful beam of light where you need it, without reaching/stepping outside your vehicle. Plugged into your cigarette lighter socket, it's capable of producing 3200 Lumens of white light reaching over 1000m, making it ideal for use in search and rescue missions, hunting or general spot lighting. You don't have to be stationary to use the light, the base features a magnetic base with rubber pad which ensures strong grip mounted on the roof of your car, 4WD, truck or boat. The remote will even allow you to operate the light up to 100m away; handy for searching on foot, tracking game or doing work around the campsite.

- Wireless remote control (100m range)
- On/off, 360° pan & 120° tilt range

Specifications	ST-3377
Power	HID-Xenon 35W
Voltage	12VDC
Colour temperature	6500K
Life	3000 hours
Light output	3200 lumens
Effective Range	1000m+
Base Design	Ferrite magnetic + rubber pad
Dimensions	270(H) x 200(L) x 180(W)mm



Note: Not ADR approved

↑ Lumens	Cat.	Qty 1+
3200	ST-3377	\$139.00

3,200 Lumen LED Spot/Search Light with Remote Controlled Pan/Tilt

Pan and tilt a powerful beam of light where you need it, without reaching/stepping outside your vehicle. Plugged into your cigarette lighter socket, it's capable of producing 3,200 Lumens of white light reaching over 1000m, making it ideal for use in search and rescue missions, hunting or general spot lighting. The base features a magnetic base with rubber pad which ensures strong grip mounted on the roof of your car, 4WD, truck or boat. The remote will even allow you to operate the light up to 100m away.

- Wireless remote control (100m range)
- On/off, 360° pan & 120° tilt range

Specifications	ST-3368
Power	50W
Voltage	12VDC
Colour temperature	6500K
LEDs	10 x 5W High Intensity XTE by Cree
Light output	3200 lumens
Effective Range	1000m+
Base Design	Ferrite magnetic + rubber vacuum pad
Dimensions	230(H) x 185(W) x 150(D)mm



Note: Not ADR approved

↑ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
3,200	ST-3368	\$269.00	\$239.00	\$209.00

LED FLOOD & WORK LIGHTS

Once again LEDs have revolutionised the established concept of floodlights and work lights. Up until recently a workshop light meant trailing a dangerous 240V lead, often across a wet or greasy floor. Now these devices are often 12V powered (there are still powerful 240V models for all night marathons). The portable ones are also great for outdoor functions at night, as well as camping and fishing outdoors. Once you have appreciated the portability of these bright, rugged and lightweight lamps you will wonder how you did without them.



Use our selection guide to help choose...

	Lumens	Power Input	IP Rating	Charge Time	Run Time	Application	Dimensions (H, W, L)mm	Page
ST-3270	100	3 x AAA	-	-	-	Hang/Magnet	98 x 67 x 34	463
ST-3272	180	3 x AA	-	-	-	Hang/Magnet	183 x 60 x 33	463
ST-3274	250	Rechargeable Lithium	-	-	-	Hang/Magnet	220 x 60 x 45	463
ST-3262	300	Rechargeable Lithium	-	3.5-4 hours	4 hours	Hang/Magnet	288 x 60 x 45	463
SL-2792	300	Rechargeable Solar	IP54	5 hours mains, 8 hours solar	3 hours	Stand	245 x 170 x 250	464
SL-2815	500	12VDC	IP65	-	-	Stand/ Wall mount	115 x 110 x 85	466
SL-2809	500	240VAC	IP65	-	-	Stand/ Wall mount	109 x 115 x 87	467
SL-2876	500	240VAC	IP65	-	-	Stand/ Wall mount	115 x 85 x 85	466
SL-2802	1,100	Rechargeable Lithium	IP65	5 hours	3 hours	Stand/ Wall mount	180 x 135 x 100	467
SL-3240	1,200	Rechargeable Lithium	IP53	2.5 hours	3.0 hours	Extendable stand	800 x 120	464
SL-2886	1,500	Rechargeable Lithium	IP65	5 hours	3 hours	Stand/ Wall mount	350 x 210 x 219	467
SL-2817	1,500	12VDC	IP65	-	-	Stand/ Wall mount	225 x 185 x 125	466
SL-2877	1,500	240VAC	IP65	-	-	Stand/ Wall mount	225 x 185 x 125	466
SL-2698	1,500	240VAC	IP65	-	-	Wall mount	307 x 223 x 135	466
SL-2699	3,800	240VAC	IP65	-	-	Stand/ Wall mount	285 x 230 x 145	466

SUPERBRIGHT LED WORKLIGHTS / FLOODLIGHTS

2-in-1 LED Flood/Work Lights – IP65 – 240VAC

Introducing our new and improved 2-in-1 240VAC flood/worklights. Each featured with a detachable stand with handle for portability inside a workshop or in construction site. The flood/worklights can also be mounted on the wall without using the detachable stand for more permanent applications such as garden, driveway, deck, hallway and other entry ways. The extremely low wattage power consumption keeps the running costs down and produce plenty of light to illuminate a wide area. Weatherproof rated (IP65) with high-strength tempered glass cover and high-pressure die cast aluminium shell which makes them extremely durable and robust to suit most outdoor applications. Powered by 240VAC mains with full electrical safety approval..

3 models available:



500 LUMEN 10W - 2-IN-1

Specifications	SL-2876
Outdoor rated	IP65
Power consumption	10W
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120 degree
Power input	240VAC
LED module dimensions	115(L) x 85(W) x 85(D)mm
Stand dimensions	235(H) x 148(W) x 165(D)mm

1500 LUMEN 30W - 2-IN-1

Specifications	SL-2877
Outdoor rated	IP65
Power consumption	30W
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120 degree
Power input	240VAC
LED module dimensions	225(L) x 185(W) x 125(D)mm
Stand dimensions	310(H) x 275(W) x 225(D)mm

3800 LUMEN 50W - 2-IN-1

Specifications	SL-2699
Outdoor rated	IP65
Power consumption	50W
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120 degree
Power input	240VAC
LED module dimensions	285(L) x 230(W) x 145(D)mm
Stand dimensions	390(H) x 335(W) x 225(D)mm

↑ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
500	10W	SL-2876	\$34.95	\$31.45	\$27.90
1500	30W	SL-2877	\$94.95	\$85.45	\$75.95
3800	50W	SL-2699	\$129.00	\$115.95	\$102.95

2-in-1 Powered LED Worklights - 12VDC

Handy LED worklight that can be powered from the cigarette lighter socket in your car. Perfect to add light to your campsite, or while repairing your car. High-strength tempered glass cover with durable aluminium case gives extra strength to the light with protected charging slots. They come with a foam grip handle to make it easy to handle. Weather resistant (IP65) so it can be used in poor weather conditions. Supplied with 3m cigarette lighter type power lead.



Specifications	SL-2815	SL-2817
Working Voltage	12VDC	12VDC
Power	10W	30W
Lumen	500	1500
Ingress rating	IP65	IP65
Emitting colour	Cool white (6000K)	Cool white (6000K)
Life time	>50,000 hours	>50,000 hours
Charging cable length	3m cigarette power lead	3m cigarette power lead
Dimensions	115(L) x 110(W) x 85(H)mm	225(L) x 185(H) x 125(W)mm

↑ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
500	10	SL-2815	\$34.95	\$31.45	\$27.90
1500	30	SL-2817	\$89.95	\$80.95	\$71.95

1,500 Lumen 30W LED Floodlight with PIR Sensor

Extremely bright LED floodlight with a PIR sensor suitable for use in warehouses, business entry/exit points, or other sensitive areas.

The PIR features 3 adjustable dials (sensitivity, time, and lux) to customise the light for your preference. The sensitivity dictates the range of the PIR. Set it to max for picking up movement at longer distances. The lux setting allows you to specify if it should only trigger during the night or day time.

Tough tempered glass cover and a high-pressure diecast aluminium shell means it will withstand the elements.

PIR Specifications	
Detection range	180°
Detection distance	5-12m (adjustable)
Day/night function	3-2000 LUX (adj)
Timer function Min	10 seconds
Max	7 minutes

Specifications	SL-2698
Rating	IP65
Power consumption	30W
Lumens	1500
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120°
Dimensions	307(L) x 223(W) x 135(D)mm
Power input	240VAC

↑ Lumens	Watts	Type	Cat.	Qty 1+	Qty 3+	Qty 6+
1500	30	Floodlight	SL-2698	\$89.95	\$80.95	\$71.95



Workbench sent to us by: Jeremy Jaycar Store: Capalaba

Bench space is important when building large RC planes.

For more details, visit:
www.jaycar.com.au/workbench



SUPERBRIGHT LED WORKLIGHTS (CONTINUED)

500 Lumen 10W Rechargeable LED Dimmable Worklight

Features a built-in rechargeable battery so you don't need to be tied to a mains power source, and a dimmable LED so you can adjust the brightness depending on your application, and to extend the time before needing a recharge. Durable high-pressure die cast aluminium shell, high-strength tempered glass cover and silicon covers over the charging port and power switch for dust and water resistance.

Specifications	SL-2809
Charge time	5 hours
Burn time	3 hours
Charging voltage	8.4VDC
Rating	IP65
Power consumption	10W
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120°
Power input	240VAC
LED module dimensions	109(L) x 115(W) x 87(D)mm



↑	Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
	500	10W	SL-2809	\$84.95	\$76.45	\$67.95

Bracket Clamp to Suit SL-2809

Bracket Clamp to suit SL-2809 above.



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Bracket	SL-2819	\$9.95	\$8.75	\$7.75

1,100 Lumen 20W Rechargeable Dimmable LED Worklight

Ideal for lighting up the backyard or campsite where mains power is not readily available. Features two light settings, bright or dim, which can help extend the time between charges. It has a durable high-pressure die cast aluminium case with high-strength tempered glass cover. It is weather resistant and has a water-resistant and dustproof power switch and charging port.

- Supplied with a 240VAC mains charger.
- Exceptionally handy and portable!

Specifications	SL-2802
Charge time	5 hours
Burn time	3 hours
Ingress rating	IP65
Power consumption	20W
Efficiency	90%
Colour	Cool white (6000K)
LED Life	Greater than 50,000 hours
Lens angle	120°
Power cable length	970mm
Dimensions (lighting area)	180(L) x 35(H) x 100(W)mm



Can be removed from frame for permanent floodlight

↑	Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
	1100	20	SL-2802	\$119.00	\$106.95	\$94.95

1,500 Lumen Rechargeable 30W LED Worklight - IP65

Mobile LED work lights for those who need lots of light without a mains connection. They include rechargeable batteries so you can keep one in the car or caravan to shine a huge amount of light on your engine, or a campsite but can also be mains powered if needed. Toughened glass covers will protect the LED from knocks and shield it from the elements. Supplied with mains charger.

- Burn time: 3 hours
- IP65 rating
- Efficiency: 90%
- Colour: Cool white
- LED Life: Greater than 50,000 hours
- Lens angle: 120°
- Power input: 240VAC (mains charger)
- Dimensions: 350(L) x 210(W) x 219(D)mm



↑	Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
	1500	30	SL-2886	\$169.00	\$151.95	\$134.95

WORK / FLOODLIGHT STAND

Floodlight Tripod Stand with T-Bar

Suitable for mounting 2 floodlights for use in a variety of applications. Height is fully adjustable with a range of 825mm (0.8m) to 1631mm (1.6m). Once your floodlights are mounted on the t-bar they can be easily rotated 360°. Aluminium construction shielded with yellow anodised metal cast paint to protect against the elements.

Suits all floodlights shown on the next page

Specifications	SL-2875
Maximum height	1631mm
Minimum height	825mm
T-Bar width	491mm



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Tripod	SL-2875	\$29.95	\$26.90	\$23.70

FOLDING WORKLIGHT WITH STAND

Folding, Rechargeable Tripod LED Worklight

The ultimate work or floodlight! This stand-alone portable light is designed so that the entire unit compacts into 800mm in length and extends into a light on a tripod up to 1.8m in height. Equipped with two Cree® XML T6 on a tilting head, it will produce a blinding 1200 lumens of light. There are three light modes; high, low and SOS. The unit has a removable rechargeable battery pack that is charged on the supplied docking charger. Comes with a carry bag to fit the light, cigarette charger and mains charger. An amazing all in one solution for all your lighting requirements.

- Supplied with 7.4V Li-ion 4400mAh removable battery pack
- Rainproof/IP53
- 2pcs Cree® T6 super bright LED fixtures included
- Includes carry bag etc.
- Includes 240V AC charger & 12V cigarette lighter charger lead



Specifications	SL-3240
Charging time	2.5 hours
Run time	3.0 hours
Lumens	1200 lumens (high), 600 lumens (low)
Dimensions folded	800(L) x 120(Dia.)mm



↑	Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
	1200	SL-3240	\$249.00	\$225.00	\$198.95

Solar Rechargeable 5W LED Worklight with USB Charger

This handy LED worklight is going to be at home in the garage, in the back of the car or 4WD, on the campsite or in your caravan. Using a 5W COB (chip on board) LED module it produces around 300 lumens of bright white light - plenty to light up the camp site, caravan awning or under the bonnet of your car. Powered by a lithium ion rechargeable battery pack which can be removed from the light and used as a 4400mAh power bank via the 1.0A USB charging port. Includes a mains charger, car charger, and of course the removable solar panel for recharging during the daylight hours.

- IP54 water resistant rated so it's safe if accidentally left out in the rain.

Specifications	SL-2792
LED	5W COB
Lumen output	300
Beam angle	120°
Charge time (Mains or Car)	5 hours
Solar charge time	8 hours
Burn time	3 hours
Charge voltage	9VDC
Weatherproof rating	IP54
USB charge output	5VDC, 1.0A
Dimensions (inc. stand & panel)	245(H) x 170(W) x 250(D)mm



↑	Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
	300	5	SL-2792	\$89.95	\$80.95	\$71.95

PORTABLE POWER BANK & LIGHTS

300 Lumen Solar Power Pack with LED Lights

A fantastic all-in-one solar power solution for the garage, shed, caravan, boat, or even tent! This kit comes with a compact carry-handle equipped power pack that can be charged with the supplied 5W solar panel or through a mains connection using the 16VDC power supply. Two switch operated 3W cool white LED lights fitted with generously long 5m leads. There's a cigarette lighter socket on the side, a USB port on the front and LED indicators to show battery and charge status.

- 12V 4Ah AGM built in battery for 50Whrs
- 5.0VDC USB socket for charging Smartphones or Tablets
- 5W monocrystalline solar panel with stand

Solar Panel Specifications	MB-3697
Power tolerance	+/- 5%
Maximum power	5W
Voltage at Pmax (Vmp)	17.4V
Current at Pmax (Imp)	0.29A
Open circuit voltage (Voc)	21.6V
Short circuit current (Isc)	0.32A
Weight	0.9kg
Dimensions	320(L) x 160(W) x 17(H)mm
Power Pack Specifications	
USB Power Output	5V, 1000mA
Input DC socket	16V-26V
Output DC socket	12VDC
Weight	2.16kg
Dimensions	206(L) x 112(W) x 240(H)mm



Solar Panel	Lumens	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 5W	300	MB-3697	\$169.00	\$151.95	\$134.95

Pure Sine Wave Portable Power Packs with Solar Panels

Fantastic all-in-one power packs ideal for your next camping trip, backyard party, or for providing power in the shed where mains power isn't available. They feature a 230VAC pure sine wave inverter for powering sensitive electrical appliances & common power outputs to power or charge your gadgets. The built-in SLA battery is charged using the supplied solar panels, making it a self-sufficient, sustainable portable energy source.

Choose between the standalone 120W, 300W with backpack or 600W model supplied with its own trolley.

Three packs available:

120W STANDALONE

- 18Ah SLA battery, 250A Jump Starter, 2 x 3W LED lights & 2 x 10W Solar Panels.

MB-3740

300W BACKPACK

- 24Ah SLA battery and 3 x 10W Solar Panels.

MB-3742

600W WITH TROLLEY

- 42Ah SLA battery and 4 x 10W Solar Panels.

MB-3746



MB-3740



MB-3742



MB-3742

MB-3746



Specifications	MB-3740	MB-3742	MB-3746
Inverter	120 Watt	300 Watt	600 Watt
SLA Battery	18Ah	24Ah	42Ah
Solar Panel	10 Watt x 2	10 Watt x 3	10 Watt x 4
230VAC Outputs	2	2	2
USB Ports	4	2	2
12VDC Ports	2	2	2
12V Cigarette Sockets	1	1	1
Adaptor	16V/3A AC/DC	16V/3A AC/DC	16V/5A AC/DC
LED	12V/3W x 2	-	-
Feature	200A Jump Starter	Backpack to suit	Wheeler to suit

Pure Sine Wave Inverter	Panels	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
120W with Solar Panels	2	Standalone	MB-3740	\$629.00	\$559.00	\$499.00
300W with Solar Panels	3	Backpack	MB-3742	\$729.00	\$649.00	\$579.00
600W with Solar Panels	4	Trolley	MB-3746	\$1099.00	\$989.00	\$899.00

RELATED PRODUCTS

FROM
\$16.95
PT-4448



HIGH CURRENT LEADS P224

FROM
\$149.00
SB-1698



DEEP CYCLE BATTERIES P244

FROM
\$49.95
MB-3609



SMART BATTERY CHARGERS P239

FROM
\$89.95
MS-6170



POWER METERS P246

PORTABLE BATTERY CHARGERS

Smart Solar Battery Charger - 100 to 120mA 15V

In sunlight, it supplies 15V at around 100-120mA of current. This is enough to keep a 12V battery that is infrequently used topped up. It is ideal for that second car, ride on lawnmower, tractor, boat, etc. It is housed in a plastic case, and has an output lead to cigarette lighter plug, with a LED which illuminates when the solar panel receives a charge.



Note, some cars will require this to be directly wired to the battery, as the cigarette lighter socket is disconnected when the ignition is switched off. Use the car lighter socket to battery clips PP-2007 for cars with switched lighter socket.

- Size: 370(L) x 160(W) x 20(D)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	MB-3501	\$39.95	\$35.90	\$31.90

Solar LED Light Kit 3 x 3W

A light weight and solar rechargeable LED light package that will lend itself to a variety of situations. Perfect for the home or while traveling, each lamp has its own switch for complete lighting control. The power pack also features a twin LED work light, and a USB port to charge USB gadgets.

- 3 x 3W pair shaped LED lamps
- 3.5W monocrystalline solar panel
- 6V 4AH SLA battery
- Dimensions: 190(H) x 100(W) x 75(D)mm



NEW 2016

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3699	\$99.95	\$89.95	\$79.95

High Efficiency Monocrystalline Solar Panel Chargers

Quality solar panels with high efficiency and smaller footprint compared to our regular monocrystalline models. An easy way to keep your 12V batteries topped up and ready to go on your caravan, farm equipment, the spare car, or on the shed out the back. The dust and weather resistant panel features a robust frame, and is supplied with 3m long leads terminated with battery clips. Each version is fitted with a blocking diode, so they are suitable for direct connection to your battery as a trickle charger (take note of the minimum battery capacity), or as a low current charger to replace a load or current drain on the battery. A charge controller such as AA-0348 is recommended on the 10W and 20W versions when there is not enough current drain to prevent over-charging of the battery.

- 5 year warranty against materials and workmanship, and 20 year warranty for power output no less than 80%

Specifications	ZM-9050	ZM-9051	ZM-9052
Maximum power (Pmax)	5W	10W	20W
Rated voltage	12V	12V	12V
Voltage at Pmax (Vmp)	17.4V	17.4V	17.4V
Current at Pmax (Imp)	290mA	580mA	1.16A
Open circuit voltage (Voc)	21.8V	21.8V	22.0V
Short circuit current (Isc)	310mA	610mA	1.21A
Min. battery capacity	50Ah	100Ah	200Ah
Weight	0.67kg	1.15kg	2.5kg
Dimensions	251(W) x 205(H) x 18(D)mm	385(W) x 253(H) x 30(D)mm	520(W) x 360(H) x 30(D)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
5W	ZM-9050	\$29.95	\$28.45	\$26.95
10W	ZM-9051	\$49.95	\$46.95	\$44.90
20W	ZM-9052	\$89.95	\$84.95	\$80.95

500 Lumen Solar Rechargeable LED Floodlight - Motion Sensor

Package includes an LED floodlight with built-in rechargeable battery which is charged via the 3W solar panel with 3m cable. The LED light automatically turns on when darkness falls, and is activated when the PIR detects motion. There is also provision for a 9VDC power supply (not included).

Light specifications	SL-2808	Solar panel specifications
Power	10W	Power 3W
Charge time	5 hours	Type Polycrystalline
Working time	3 hours	Vmp 9V
Colour	Cool white	Imp 0.34A
Charging voltage	8.4VDC	Voc 10.6V
Dimensions	175(H) x 145(W) x 53(D)mm	Solar panel 259(L) x 130(W) x 14(D)mm



↑	Solar Panel	Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
	12V 3W	500	SL-2808	\$179.00	\$160.95	\$142.95

FOLDING SOLAR PANELS

100W Mono Folding Solar Panel with Carry Bag

A 100W folding solar panel ideal for camping or road trips. Utilises monocrystalline solar cells with a highly efficient PWM (pulse width modulation) solar charge controller mounted inside the unit. The charge controller features a handy 5VDC USB output as well as a raft of battery protection attributes. For greater battery connection versatility, anderson connectors and alligator clips are included. The anderson terminated cable is a generous 4m long with an additional 1m anderson to alligator cable. The aluminium stands can be locked at various positions allowing easy angle adjustment for maximum sun exposure. Also features tough steel carry handle and a nylon carry case to keep everything neat and tucked away when not in use.

- 24 month warranty on solar charge controller

Solar Charge Controller

- Type: PWM (pulse width modulation)
- LED indicators for battery status
- Supports SLA, GEL and Flooded batteries
- Realtime temperature compensation makes corrections to discharging and charging parameters to help improve battery life
- Overload, shortcircuit, over voltage, low voltage and reverse polarity protection
- Includes 5VDC USB output for charging smartphones and tablets

Specifications	ZM-9133
Pmax	100W
Rated voltage	12V
Voltage at Pmax	18V
Current at Pmax	5.56A
Open circuit voltage	21.6V
Short circuit current	6A
Weight	19kg
Anderson cable length	4m
Alligator terminated cable length	1m (connects to the anderson cable so a total of 5m)
Dimensions Open	1078(W) x 610(H) x 35(D)mm
Dimensions Folded	534(W) x 610(H) x 73(D)mm



WARRANTY

↑	Cat.	Qty 1+	Qty 4+
	ZM-9133	\$349.00	\$329.00

FOLDING SOLAR PANELS (CONTINUED)

120W Mono Folding Solar Panel with Carry Bag

A convenient alternative energy solution for those on the move. Fold it away and store it in the carry bag when not in use, then when you set up camp just fold it out so your batteries are being charged. A stand is included so you can position the panel for optimum solar capture. Features 10m output lead with Anderson® connectors, alligator or eye terminal connections, has the charge controller included so you can connect directly to your battery without fear of over-charging, and is supplied with a durable nylon carry bag. Excellent for camping, 4WD, boating etc.

* 25 year warranty for electrical output, and 12 months for construction and electronics.

Specifications	ZM-9134
Pmax	120W
Rated voltage	12VDC
Voltage at pmax	18V
Current at pmax	6.67A
Open circuit voltage	22.5V
Short circuit current	7.4A
Weight	13.0kg
Dimensions	
Open	1090(W) x 835(H) x 36(D)mm
Folded	545(W) x 835(H) x 73(D)mm



		Cat.	Qty 1+	Qty 4+
12VDC	120W	ZM-9134	\$399.00	\$369.00

RECREATIONAL SOLAR PACKAGE DEALS

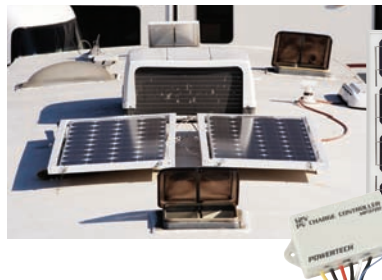
A range of affordable DIY solar package deals from small entry level for light weight camping to a serious system to provide sufficient power for your off-road or boating get-away. Most of the packages come with everything needed to set up the complete power system with minimum wiring. See individual components for full details and warranty information in the Power section.

8 recreational solar package deals to choose from:

80 Watt Fixed Solar Standard Package

Includes:

- 1 x 80W monocrystalline solar panel Cat ZM-9097
- 1 x 12V 8A charge controller Cat MP-3720
- 2 x female PV connector Cat PS-5100
- 2 x male PV connector Cat PP-5102



Note: See individual products for warranty details.

	Voltage	Watts	Type	Cat.	Qty 1+
	12V	80W	Fixed	ZM-9300	\$279.00

80 Watt Fixed Solar Panel Package

Intended for fixed installations with the solar panel mounted on a roof or deck. Suitable for caravans, small boats, motorhomes, etc. Ideal to power LED lighting and 12V fridge/freezer. Solar panel mounting hardware, PV cable and crimping tool available separately.

- 1 x 12V 80W Powertech Monocrystalline Solar Panel Cat ZM-9097
- 1 x 12V 8A Water Resistant PWM Solar Charge Controller Cat MP-3720
- 1 x Battery Box with Power Accessories Cat HB-8500
- 1 x 12V 100Ah Deep Cycle Gel Battery Cat SB-1695
- 1 x Flexible LED Strip Light with Hook & Loop Backing Cat ST-3950
- 1 x Waterproof Solar Power "PV" Connector 4mm Female Cat PS-5100
- 1 x Waterproof Solar Power "PV" Connector 4mm Male Cat PP-5102

- Cat ZM-9097
- Cat MP-3720
- Cat HB-8500
- Cat SB-1695
- Cat ST-3950
- Cat PS-5100
- Cat PP-5102



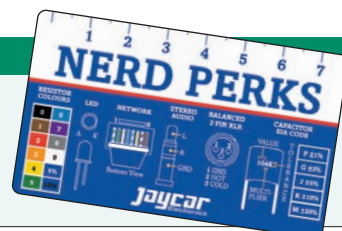
Note: See individual products for warranty details.

	Voltage	Watts	Type	Cat.	Qty 1+
	12V	80W	Fixed	ZM-9310	\$920.00

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online. *Conditions apply. See page 7 for details



RECREATIONAL SOLAR PACKAGE DEALS (CONTINUED)

145 Watt Fixed Solar Panel Package

Includes:

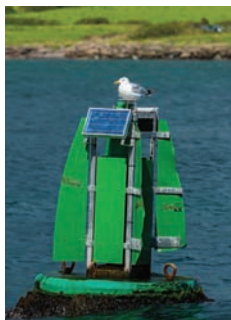
- 1 x 145W monocrystalline solar panel
- 1 x 12V 8A PWM charge controller
- 2 x female PV connector
- 2 x male PV connector

Cat ZM-9087
Cat MP-3720
Cat PS-5100
Cat PP-5102

MORE INFORMATION...

Individual solar products and hardware are featured elsewhere in our power section

Note: See individual products for warranty details.



⬆ Voltage	Watts	Type	Cat.	Qty 1+
12V	145W	Fixed	ZM-9301	\$415.00

160 Watt Fixed Solar Panel Package

Includes:

- 2 x 80W monocrystalline solar panel
- 1 x 12V 20A PWM charge controller
- 3 x female PV connector
- 3 x male PV connector
- 1 x solar panel Y-lead 2 socket to 1 plug
- 1 x solar panel Y-lead 2 plug to 1 socket

Cat ZM-9097
Cat MP-3129
Cat PS-5100
Cat PP-5102
Cat PS-5110
Cat PS-5112

Note: See individual products for warranty details.



⬆ Voltage	Watts	Type	Cat.	Qty 1+
12V	160W	Fixed	ZM-9303	\$610.00

290 Watt Fixed Solar Panel Package

Includes:

- 2 x 145W monocrystalline solar panel
- 1 x 12V 30A charge controller
- 3 x female PV connector
- 3 x male PV connector
- 1 x solar panel Y-lead 2 socket to 1 plug
- 1 x solar panel Y-lead 2 plug to 1 socket

Cat ZM-9087
Cat MP-3722
Cat PS-5100
Cat PP-5102
Cat PS-5110
Cat PS-5112

Note: See individual products for warranty details.



⬆ Voltage	Watts	Type	Cat.	Qty 1+
12V	290W	Fixed	ZM-9306	\$930.00

360 Watt Flexible Solar Panel Expedition Package

Ideal for fixed installations where with the solar panel mounted on a roof or deck. Suitable for caravans, small boats, motorhomes, sheds, weekend shacks, etc. Ideal to power LED lighting and 12V fridge/freezer. Solar panel mounting hardware, PV cable and crimping tool available separately.

- 2 x 12V 180W Flexible Monocrystalline Solar Panel
- 1 x 12V/24V 30A MPPT Solar Charge Controller
- 1 x 12V 100Ah Deep Cycle Gel Battery
- 1 x Battery Box with Power Accessories
- 1 x Waterproof Solar Power "PV" Connector 4mm Female
- 1 x Waterproof Solar Power "PV" Connector 4mm Male
- 1 x Solar Panel 'Y' Lead 2 Socket to 1 plug 300mm
- 1 x Solar Panel 'Y' Lead 2 Plug to 1 Socket 300mm
- 2 x Flexible LED Strip Light with Hook & Loop Backing

Cat ZM-9156
Cat MP-3735
Cat SB-1695
Cat HB-8500
Cat PS-5100
Cat PP-5102
Cat PS-5110
Cat PS-5112
Cat ST-3950

Note: See individual products for warranty details.



⬆ Voltage	Watts	Type	Cat.	Qty 1+
12V	360W	Fixed/Flexible	ZM-9314	\$2159.00

ANDERSON CONNECTOR SELECTION GUIDE

Need some help?

Used widely in both domestic and industry, you'll find these connectors in many 4WD, boating, automotive and other industry applications.

Supplied individually with a pair of contacts, all 5 current ratings have an operating temperature of -20° to +120°C.



Use our selection guide to help choose...

	Series	Housing	No of contacts	Contact Rating	Contact Wire Size	Voltage Rating	Max Wire Insulation Diameter	Contact Retention Force	Page
PT-4402	Powerpole	PP15-45	2	15A	0.52 - 1.3 mm ² (20 - 16 AWG)	600V	2.54 mm	9 kgs	472
PT-4405	Powerpole	PP15-45	2	30A	1.3 - 3.3 mm ² (16 - 12 AWG)	600V	4.4 mm	9 kgs	472
PT-4406	Powerpole	PP15-45	2	45A	2.1 - 5.3 mm ² (14 - 10 K* AWG)	600V	4.4 mm	9 kgs	472
PT-4407	Powerpole	PP75	2	75A	13.3 mm ² (6 AWG)	600V	5.59 mm	22 kgs	472
PT-4403	PPMX Auxillary	PPMX	4	20A	0.50 - 0.25 mm ² (24 - 20 AWG)	300V	2.36 mm	5.3 kgs	473
PT-4416	Powerpole	PP10 P & S	2	10A	1.3 - 2.1 mm ² (16 - 14 AWG)	600V	2.3 mm	11 kgs	473
PT-4427	SB Connectors	SB50	2	50A	3.3 - 5.3 mm ² (12 - 10 AWG)	600V	3.56 mm	22 kgs	472
PT-4425	SB Connectors	SB50	2	50A	8.4 mm ² (8 AWG)	600V	4.83 mm	22 kgs	472
PT-4420	SB Connectors	SB50	2	50A	13.3 mm ² (6 AWG)	600V	5.59 mm	22 kgs	472
PT-4422	SB Connectors	SB120	2	120A	33.6 mm ² (2 AWG)	600V	14.6 mm	45.5 kgs	472
PT-4424	SB Connectors	SB175	2	175A	53.5 mm ² (1/0 AWG)	600V	19 mm	137 kgs	472
PT-4434	Powerpole	PP30	4	30A	1.3 - 3.3 mm ² (16 - 12 AWG)	600V	4.4 mm	9 kgs	473
PT-4436	Powerpole	PP30 (with latch)	4	30A	1.3 - 3.3 mm ² (16 - 12 AWG)	600V	4.4 mm	9 kgs	473

Individual Nesting Connectors

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red and black pair with contacts.

Specifications	PT-4402	PT-4405	PT-4406	PT-4407
Contact Rating	15A	30A	45A	75A
Voltage	600V (AC or DC)	600V (AC or DC)	600V (AC/DC)	600 (AC or DC)
Contact Wire Size	0.52-1.3mm ² (20-16AWG)	1.63-2.59mm (10-14AWG), closed barrel	1.63-2.59mm (10-14AWG), open barrel	1.3mm - 13mm (6 - 16AWG)
Max Wire Insulation Dia	2.54mm	4.4mm	4.4mm	1.3 - 13.3mm
Contact Retention Force	9kgs (20lbs)	9kgs (20lbs)	9kgs (20lbs)	22kgs (50lbs)
Operating Temperature	-20 to +105°C	-40 to +125°C	-40 to +125°C	-40 to +125°C



AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
20-16	15A	PT-4402	\$3.95	\$3.55	\$3.15
10-14	30A	PT-4405	\$4.95	\$4.45	\$3.90
10-14	45A	PT-4406	\$4.95	\$4.45	\$3.90
6-16	75A	PT-4407	\$11.95	\$10.70	\$9.50

50A Anderson Connectors

This is the most popular standard Anderson unit. It supports the greatest range of variations (See page 224). It is very commonly used in marine, 4WD and caravanning applications. Supplied as a moulded grey body with identical positive and negative contacts. Inserting the contacts in the body automatically polarises the connector (Cable entry contacts do not change overall connector body size).



Specifications	PT-4425	PT-4427	PT-4420
Contact Rating	50A	50A	50A
Contact Wire Size	#8 AWG	#12-10 AWG	13.3mm ² (#6 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia.	11mm	11mm	11mm
Contact Retention Force	22kg	22kg	22kg
Operating Temperature	-20 to +105°C	-20 to 105°C	-20 to +120°C
Anderson Part No.			SB50-6319
Dimensions			48(L) x 36.5(W) x 15.9(H)mm

AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
8	50A	PT-4425	\$9.95	\$8.95	\$7.95
12-10	50A	PT-4427	\$9.95	\$8.95	\$7.95
6	50A	PT-4420	\$9.95	\$8.75	\$7.75

120A & 175A Anderson Connectors

These are the larger body connector styles that you commonly see on electric forklift trucks. You occasionally see them use as winch connectors on 4WDs, especially the PT-4422 model. Identical design to 50A model only larger. The positive and negative contacts are the same and inserting the contacts home inside the connector (once the power cable has been crimped or solder-sweated) is seated home the connector is automatically polarised.



Specifications	PT-4422	PT-4424
Contact Rating	120A	175A
Contact Wire Size	33.6mm ² (2 AWG)	53.5mm ² (1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Diameter	14.6mm	19mm
Contact Retention Force	45.5kg (100lbs)	137kg (300lbs)
Operating Temperature	-20 to +125°C	-20 to +125°C
Anderson Part No.	B120-6800G1	SB175-6325G1
Dimensions	63.5(L) x 44.5(W) x 20.6(H)mm	79.4(L) x 55.4(W) x 25.4(H)mm

AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
2	120A	PT-4422	\$19.95	\$17.70	\$15.70
1/0	175A	PT-4424	\$29.95	\$26.90	\$23.70

HIGH CURRENT CONNECTORS

Anderson 35A SBS Mini Connectors

These compact mini connectors can handle up to 600 volts continuous in AC or DC with current up to 35A. The mechanical and colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly in the factory or the field. The touchsafe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load. Supplied as a moduled 2 pole with contacts

Specifications	PT-4480	PT-4482	PT-4484
Housing Colour	Black	Red	Grey
Contact Rating	35A		
Contact Wire Size	10 AWG		
Voltage Rating	600 (AC or DC)		
Max Wire Insulation	4.0mm ²		
Operating Temperature	-20°C to 105°C		
Anderson Part No	B02265G2	B02265G1	B02265G4

		Cat.	Qty 1+	Qty 10+	Qty 50+
Black	35A	PT-4480	\$7.95	\$7.15	\$6.25
Red	35A	PT-4482	\$7.95	\$7.15	\$6.25
Grey	35A	PT-4484	\$7.95	\$7.15	\$6.25

Anderson Powerpole Series 4 Pin Data Connector

A genderless 4 pole signal Anderson connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson connector (PT-4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Current Rating: 7A
- Up to 24 gauge for signal wire connectivity.
- Dimensions: 25(L) x 8(W) x 8(H)mm

↑		Cat.	Qty 1+	Qty 10+	Qty 50+	
	Stackable	7A	PT-4403	\$22.95	\$20.65	\$18.35

Anderson Connectors - Plug & Socket

These little connectors can handle up to 600 volts continuous in AC or DC with maximum current of 10A. The green housing provides a visual indication of the ground terminal. Suitable for use in numerous applications from automotive to aviation. They will fit wire size from 14-16 AWG (2.1 to 1.3 mm²). Supplied as plug and socket pair.

- Plug Dimension: 27.5(H) x 8(L) x 8(W)mm
- Socket Dimension: 24.5(H) x 8(L) x 8(W)mm

↑		Cat.	Qty 1+	Qty 10+	Qty 50+
	10A	PT-4416	\$6.95	\$6.25	\$5.55

4 Way 15A Anderson Connectors

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A - PT-4434

- Dimensions: 53(L) x 32(W) x 22(H)mm

4 WAY 15A WITH LATCH - PT-4436

- Dimensions: 53(L) x 32(W) x 22(H)mm

↑		Cat.	Qty 1+	Qty 10+	Qty 50+	
	4 Way	15A	PT-4434	\$12.95	\$11.35	\$10.35
	4 Way with Latch	15A	PT-4436	\$12.95	\$11.35	\$10.35

EXTENDED VERSATILITY ANDERSON ADAPTORS

This new range enables you to chassis or panel mount Anderson plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

50A Chassis Mount Anderson Adaptors

Black 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
	50A	PT-4460	\$19.95	\$17.70	\$15.70

175A Chassis Mount Anderson Adaptors

Black 175 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
		PT-4464	\$27.95	\$24.95	\$22.35

50 Amp Connector Cover Assembly Quickfit

Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
		PT-4466	\$25.95	\$23.35	\$20.70

For heavy current cable suitable for these connectors, see page 202

50A Red Chassis Mount Anderson Adaptors

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
		PT-4470	\$19.95	\$17.70	\$15.70

Panel Mount Anderson Connector

Flush mount Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
		PT-4472	\$24.95	\$22.35	\$19.70

Dustproof Rubber Boot for 50A Anderson Mounts

Rubber sleeve for water, dust and UV protection of Anderson style connectors.

↑		Cat.	Qty 1+	Qty 3+	Qty 6+
		PT-4474	\$3.95	\$3.50	\$3.15

TECH TALK!

ASSEMBLING ANDERSON STYLE CONNECTORS

These connectors come with absolutely no assembly instructions which might surprise some. Assembly is self-evident however. All that you really have to do is solder-sweat the heavy gauge wire into the 'pot' on the end of the connector tip. It is a good idea to puddle some solder into the pot and then lower the tinned wire into the pot. It may be necessary to apply some more heat (usually with a small gas torch or stove gas top) to get the whole lot to melt. Try to keep the joint immobile until the solder 'sets', then cool off under tap water. And of course you can always crimp the lead into the solder cup, but this should really be done professionally. A piece of heat shrink ties the job nicely. The wire/lug/contact then just snaps into the housing.

AUTO & OUTDOORS POWER CONNECTORS

HIGH CURRENT CONNECTORS (CONTINUED)

Waterproof Anderson Connectors

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson® connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm²) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm²
- Mountable
- Easy to use

Dimensions when connected: 151(H) x 55(W) x 160(L)mm

50A BOOT LOAD SIDE - PT-4428

- Dimensions: 85(H) x 55(L) x 20(W)mm

50A BOOT SOURCE SIDE - PT-4429

- Dimensions: 85(H) x 55(L) x 20(W)mm

120A BOOT LOAD SIDE - PT-4431

- Dimensions: 112(H) x 57(L) x 39(W)mm

120A BOOT SOURCE SIDE - PT-4432

- Dimensions: 118(H) x 59(L) x 39(W)mm

175A BOOT LOAD SIDE - PT-4438

- Dimensions: 135(H) x 77(L) x 42(W)mm

175A BOOT SOURCE SIDE - PT-4439

- Dimensions: 135(H) x 68(L) x 42(W)mm



↑		Cat.	Qty 1+	Qty 10+	Qty 50+
	Boots to Suit 50A Male	PT-4428	\$15.95	\$14.35	\$12.75
	Boots to Suit 50A Female	PT-4429	\$16.95	\$15.25	\$13.55
	Boots to Suit 120A Male	PT-4431	\$24.95	\$22.45	\$19.95
	Boots to Suit 120A Female	PT-4432	\$24.95	\$22.45	\$19.95
	Boots to Suit 175A Male	PT-4438	\$24.95	\$22.50	\$19.95
	Boots to Suit 175A Female	PT-4439	\$29.95	\$26.95	\$23.95

High Current Dust/Water Resistant Rubber Covers

A water and dust resistant rubber cover to suit our connectors.



↑	Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4420 50A	PM-4434	\$8.95	\$7.95	\$6.95
	PT-4422 120A	PM-4432	\$15.95	\$14.35	\$12.75
	PT-4424 175A	PM-4430	\$13.95	\$12.55	\$11.15

Handles for Anderson Style Connectors

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson Style Connectors

50A Cat PT-4420 Cat PM-4436

120A Cat. PT-4422 Cat PM-4438

175A Cat. PT-4424 Cat PM-4439



↑	Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4420	PM-4436	\$7.95	\$6.95	\$6.75
	PT-4422	PM-4438	\$7.95	\$6.95	\$6.75
	PT-4424	PM-4439	\$12.95	\$11.35	\$10.35

TECH TALK!

Most of the products shown on these pages are designed for powering accessories in cars and trucks. They are perfect for example in wiring big power amps in your car. If you intend to use these components for critical applications (say, where safety is an issue) we suggest that you wire multiple circuits if possible and limit the current in each circuit accordingly. Then if you lose one circuit you will have some redundancy. You don't, for example want to lose your headlamp circuit at night because of Deep Purple! This principle, of course, applies to all high current wiring.

50A Anderson Plug to Insulated Battery Clamps

Tough insulated battery clamps connected to an Anderson plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.



- 8 AWG cable
- 50A rated
- Insulated battery clamps
- Length: 300mm

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4449	\$24.95	\$22.45	\$19.95

50A Anderson Leads

A series of Anderson connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.



Five versions available:

PLUG EXTENSION LEAD, 8AWG 5M

PT-4440

PIGGYBACK LEAD, 8AWG, 300MM

PT-4442

EYE TERMINAL LEAD, 8AWG, 300MM

PT-4444

ANDERSON TO 15A CIGARETTE PLUG LEAD, 16AWG, 300MM

PT-4446

ANDERSON TO 15A CIGARETTE SOCKET LEAD, 16AWG, 300MM

PT-4448



↑		Cat.	Qty 1+	Qty 10+	Qty 50+
	Plug Extension Lead	PT-4440	\$79.95	\$71.95	\$63.95
	Piggyback Lead	PT-4442	\$34.95	\$31.45	\$27.90
	Eye Terminal Lead	PT-4444	\$14.95	\$13.45	\$11.95
	Cigarette Plug Lead	PT-4446	\$16.95	\$14.95	\$13.35
	Cigarette Socket Lead	PT-4448	\$16.95	\$14.95	\$13.35

Solar Panel PV Plug and Socket to Anderson Plug - 300mm

Anderson connectors one end (50A), PV connectors on the other end. 4mm² conductor 30 amp capacity, twin sheath high quality cable. Ideal for connecting from an Anderson connector solar panel source to a PV load. Comes with grommets on each side for straight forward and neater installations.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-5122	\$19.95	\$17.95	\$15.70

PV Connector to Eye Terminal Lead

A handy lead allowing you to attach your battery through the eye terminals to your PV connection on your solar panel. Utilise these red and black 400mm cables, with grommets on each side for straightforward and neater installations.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-5124	\$19.95	\$17.95	\$15.70

RELATED PRODUCTS

FROM
\$5.25
WH-3045



7.5A DC CABLE 10M ROLL P202

FROM
\$3.20
HP-1221



LOOM TUBE P208

FROM
\$16.95
TH-1824



WIRE STRIPPERS P52

FROM
\$7.95
WH-5525



HEATSHRINK P205

AUTOMOTIVE CONNECTORS

Automotive Waterproof Plug & Socket Sets

Waterproof automotive connectors commonly used on many modern cars for wiring connections within the engine bay and other areas that are exposed to moisture. The interlocking parts are surrounded by a rubber seal, while an individual grommet seals each wire. Each package includes plug, socket, cable grommets and crimp pins.

- Current rating: 20A (max.)
- Pin spacing: 7.5mm
- Assembled Length: 70mm



	Cat	Qty 1+	Qty 10+	Qty 50+
2 Way	PP-2110	\$7.95	\$6.95	\$6.25
3 Way	PP-2112	\$10.95	\$9.75	\$8.75
4 Way	PP-2114	\$16.95	\$14.95	\$13.35
6 Way	PP-2116	\$19.95	\$17.70	\$15.70

Waterproof Deutsch 2 Way Connector Set

High quality Waterproof 2-way "Deutsch" connectors commonly used in automotive or marine applications. Perfect for connecting up sensors/lights in the engine bay due to their superior corrosion protection and waterproof properties.

- Supplied as a male & female connector set with housings, wedges, seals and crimp pins.
- Rated to 13A current.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-2150	\$6.95	\$6.25	\$5.50

AUTO TERMINALS

Gold Plated Battery Terminals

This terminal is made from brass, and is gold plated. It has a 6mm bolt, and wing nut on which our gold terminals can be connected to run cabling to equipment.

- Suits positive car battery terminals

AMP-KING



	Cat.	Qty 1+	Qty 10+	Qty 50+
	HC-4040	\$9.95	\$8.75	\$7.75

Multi-Connect Battery Terminal - Red

This Multi-Connection Battery Terminal can be used to terminate up to 4 electronic devices. It can also be used separately as a bus-bar that connects to multiple devices. Perfect for simplify the wiring in the car, surveillance or security system and other 12V applications where multiple accessory wiring is needed.

- Terminates up to 4 electronic devices
- Red colour for positive connections
- Does not need screws
- Spade terminals included
- Dimensions: 75(L) x 40(W) x 20(H)mm

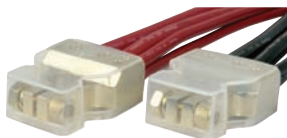


	Cat.	Qty 1+	Qty 10+	Qty 50+
	HM-3089	\$9.95	\$8.75	\$7.75

4 Wire 2G + 4G + 2x8G Battery Terminals

These 4 wire gold battery terminals will accept one 2GA, 4GA cables and two 8G cables. These units come complete with clear cover.

- NOTE: Cable not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
Positive	HC-4048	\$19.95	\$17.95	\$15.95
Negative	HC-4049	\$19.95	\$17.95	\$15.95

CARAVAN PLUGS & SOCKETS

2 Pin 32 Volt Plugs & Sockets

For low voltage applications such as caravans etc up to 15 amps.



	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Socket	PS-2073	\$19.95	\$17.95	\$15.95
Surface Socket	PS-2074	\$19.95	\$17.95	\$15.95
Line Plug	PP-2075	\$9.95	\$8.95	\$7.95

MULTI-WAY CONNECTORS

Automotive Multi-Way Plug / Sockets - 250 Series

Commonly used in automotive applications such as stereo and CB installations, or for replacements in existing wiring. The housings interlock and they come in 2, 3, 4, 6 or 8 way sets. Each comes with plug, socket, and male and female locking spade lugs.



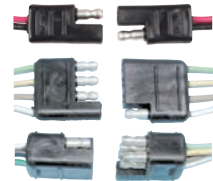
2 way & 6 way shown

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP-2062	\$2.95	\$2.60	\$2.30
3 Way	PP-2064	\$3.45	\$3.05	\$2.75
4 Way	PP-2066	\$3.95	\$3.45	\$3.15
6 Way	PP-2068	\$4.95	\$4.45	\$3.90
8 Way	PP-2069	\$6.95	\$6.25	\$5.50

Wired Multi Pin Plugs / Sockets

Heavy duty plug and socket with bullet type connectors.

- Pre wired with 18AWG wire.
- Extremely handy when cables need to be periodically unplugged.
- Bullet style connectors



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP-2034	\$3.45	\$3.05	\$2.75
4 Way	PP-2030	\$8.95	\$7.95	\$6.95
6 Way	PP-2032	\$11.95	\$10.70	\$9.50

Pin Extraction Tool

Take the frustration out of removing Molex connector pins with these time save tools. Simply slide the tool over the connector and push the plunger to effortlessly remove the pin. Both male and female pin extractors available.



TH-1730

TH-1732

	Cat.	Qty 1+	Qty 3+	Qty 6+
Male Extractor	TH-1730	\$24.95	\$22.45	\$19.95
Female Extractor	TH-1732	\$24.95	\$22.45	\$19.95

MULTI PIN (MOLEX)

Miniature Nylon MOLEX-Type Connectors

Suitable for high current/high density, wire-to-wire or wire-to-board applications. They are suitable for both power and signal connections.

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals
- Male and female pins supplied



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP-2021	\$2.75	\$2.45	\$2.15
3 Pin	PP-2023	\$2.95	\$2.60	\$2.30
4 Pin	PP-2027	\$3.45	\$3.05	\$2.75
6 Pin	PP-2025	\$3.95	\$3.45	\$3.15

Multi Pin Plug / Socket

Each set consists of nylon body for male/female, along with male/female socket pins to fill all available poles. Will mate with standard MOLEX-type connectors.



TECH TALK!
Sometimes called Soft Shell connectors

PP-2020

	Cat	Qty 1+	Qty 10+	Qty 50+
2 Pole	PP-2020	\$2.75	\$2.45	\$2.15
3 Pole	PP-2022	\$2.95	\$2.60	\$2.30
6 Pole	PP-2024	\$3.95	\$3.45	\$3.15
12 Pole	PP-2026	\$6.95	\$6.25	\$5.50

AUTO & OUTDOORS POWER CONNECTORS

JUMPER LEADS

Jumper Lead Kits

HEAVY DUTY

This kit has large alligator clips and heavy cable. The alligator clips are approximately 50mm long, and have jaw openings of about 10mm. Cable length is approx 300mm.

- 10 leads supplied, 2 of each colour.



STANDARD

Ideal for connecting devices for testing. Alligator clip size is approx 40mm, jaw opening is about 8mm and cable length is approx 400mm.

- 10 leads supplied 2 of each colour.

	Cat.	Qty 1+	Qty 10+	Qty 50+
Heavy Duty	WC-6020	\$11.95	\$10.70	\$9.50
Standard	WC-6010	\$6.95	\$6.25	\$5.35

Heavy Duty 400A 3.5m Jumper Leads with LED Illumination

A super handy set of jumper leads to leave in the back of the car! Each battery clamp has a LED light built in, powered by built-in batteries, so even in the dark you can find your way around the engine bay. The jumper leads are fitted with a voltage surge protector to keep your vehicle electronics safe, and are rated to 400A for heavy engine starting loads. Supplied in a clear plastic carry case.



- Voltage surge protection
- 400A current rating
- 8 x LR44 button batteries included
- 3m long



	Cat.	Qty 1+	Qty 3+	Qty 6+
400A	WH-6012	\$34.95	\$31.45	\$27.95

Extra-Heavy Duty 700A 4.5m Jumper Leads with LED Illumination

These extra-heavy duty jumper leads have battery clamps with a helpful LED light built in, so you can find the battery terminals even in pitch black darkness. Rated at 700A, they are suitable for higher CCA (cold cranking amp) loads on big V6s, V8s and diesel 4WDs. At 4.5m long, they have that extra bit of length over your typical jumper leads, which always makes the difference when dealing with large 4WD engine bays. Fitted with a surge protector to protect sensitive electronics, and supplied in a handy clear plastic carry case. LEDs powered by built in batteries (included).



- Voltage surge protection
- 700A high current rating
- 8 x LR44 button batteries included
- 4.5m long

	Cat.	Qty 1+	Qty 3+	Qty 6+
700A	WH-6014	\$69.95	\$62.95	\$55.95

If you are reading this page you may have an application for high-current wiring. For suitable heavy-duty cable check out pages 202 for cable down to "0" gauge. You might also find the automotive cabling hardware and fuses on pages 481 to 483 interesting.

Also look out for our new Compact Jump Starter units on page 484

Workbench sent to us by: Bill Jaycar Store: Clovelly Park

I cant wait to start using a 3D printer to print the parts for my 1 gauge model trains.

For more details, visit:
www.jaycar.com.au/workbench



ALLIGATOR CLIPS

4mm Banana Socket to Alligator Clip

Available in black or red



		Cat.	Qty 1+	Qty 10+	Qty 50+
Red	Each	PA-3668	\$2.75	\$2.45	\$2.15
Black	Each	PA-3669	\$2.75	\$2.45	\$2.15

Cat III Rated Banana Alligator Clip

Takes standard and fully insulated 4mm banana plugs and turns them into an alligator clip.



- CATIII rated.
- Sold as a pair, red and black.

	Cat.	Qty 1+	Qty 10+	Qty 50+
Pair	PA-3696	\$9.95	\$8.75	\$7.75

Alligator Clips

- Sold as a pair
- 1 x red & 1 x black



		Cat.	Qty 1+	Qty 10+	Qty 50+
↑					
26mm	Pair	HM-3020	\$1.50	\$1.35	\$1.20
32mm	Pair	HM-3022	\$1.95	\$1.75	\$1.55

Alligator Clips With Screw

No soldering required. Large alligator clips with plastic finger grips and a screw for connection.



- Length 55mm
- Max jaw opening 12mm
- Sold as a pair or singly

	Cat.	Qty 1+	Qty 10+	Qty 50+
1 x Red & 1 x Black, Pair	HM-3025	\$2.45	\$2.15	\$1.95

Car Battery Type Clips

- All have insulated colour coded handles
- Sold in pairs.

Cat.	Current	Length	Max Jaw Opening
HM-3010	15	55mm	14mm
HM-3012	30A	70mm	20mm
HM-3015	50A	98mm	25mm
HM-3060	200A	130mm	35mm
HM-3085	400A	155mm	22mm

The 400 amp versions are very large and very strong. You cannot put your finger in the end, because it will probably give you a bite!

These are ideal for our 300W and 500W inverters.



		Cat.	Qty 1 +	Qty 10 +	Qty 50 +
15A	Pair	HM-3010	\$3.50	\$3.15	\$2.75
30A	Pair	HM-3012	\$3.95	\$3.45	\$3.15
50A	Pair	HM-3015	\$5.50	\$4.90	\$4.30
200A	Pair	HM-3060	\$9.95	\$8.75	\$7.75
400A	Pair	HM-3085	\$15.95	\$14.35	\$12.70

400 Amp Stainless Steel Battery Clamps

Rated at 400 amps this pair of heavy duty battery clamps are ideal for making up jumper leads and for use with our inverters. All metal parts are made from 316 marine grade stainless steel, they can be taken and used anywhere without the risk of corrosion.

- Sold per pair
- Current rating: 400 amps
- Length 165mm
- Max jaw opening 50mm
- 316 Grade (marine grade) stainless steel



↑		Cat.	Qty 1 +	
	400A	Pair	HM-3086	\$4.95

CIGARETTE LIGHTER PLUGS

5 Amp Lead With Bare Ends

Lead with a 5 amp fused cigarette lighter plug on one end.

- Cable length: 450mm approx.
- Cable thickness: 18AWG



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
3A 3G	PP-1995	\$2.95	\$2.60	\$2.30

8 Amp Lead With Bare Ends

A lead consisting of an 8 amp fused cigarette lighter plug and 5 metres of thick cable.

- 18 AWG cable



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
8A	PP-1998	\$13.95	\$12.35	\$10.95

Cigarette Lighter Plug

Simply plugs into the car cigarette lighter socket to obtain 12VDC from the car battery.

- Economy grade



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Economy	PP-2000	\$1.65	\$1.45	\$1.30

Cigarette Lighter Plug - Fused

As PP-2000 but with the added safety benefit of being fused. Supplied with 3A fuse.

- Recommended



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Fused	PP-2001	\$3.95	\$3.45	\$3.15

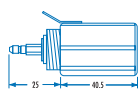
TECH TALK!

Auto cigarette lighter wiring rarely allows more than 15A to be taken from this circuit.

CIGARETTE LIGHTER SOCKETS

Cigarette Lighter Chassis Socket

- Install in dash
- 21mm hole required



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2002	\$6.95	\$6.25	\$5.50

Cigarette Lighter Inline Socket

- 5A max



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2003	\$3.95	\$3.45	\$3.15

Under Dash Cigarette Lighter Socket With Protective Cap

This socket can be mounted under a car or boat dash and features a hinged cap with protective gasket.

- Heavy duty auto cable pre-attached
- 450mm length.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2008	\$12.95	\$11.35	\$10.35

Under Dash Double Cigarette Lighter Socket

A dual socket mounted on a steel frame which in turn mounts under the dashboard. Heavy duty auto cable is included with in-line fuse holder and terminated with a bullet and Y connector.

- Lead length 300mm
- Self tapping mounting screws included



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2009	\$12.95	\$11.35	\$10.35

15A Cigarette Socket to 8mm Eye Terminal

A handy lead allowing you to power your 12VDC cigarette lighter plug devices from a range of 12VDC sources. The cigarette lighter socket is attached to 16AWG 400mm long red and black lead with 8mm eye terminals on each end.

- Rated to 15A max.



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4451	\$12.95	\$11.35	\$10.35

Dash/Panel Mount Cigarette Lighter Socket with Cap, 15A

Provides a cap protected cigarette lighter socket for your boat, car, or truck. Easy to install includes 2 x countersunk screw holes for easy mounting. Rated at 15A with 6.3mm spade connections

- Dimensions: 56(W) x 31(H) x 50(D)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2004	\$9.95	\$8.75	\$7.75

Car Cigarette Lighter Socket with Lid

This weatherproof 12V car cigarette lighter socket can be flush mounted and has a springloaded lid to keep it free of dust and debris.

- Perfect for caravan, marine, 4WD or other harsher than normal applications.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2015	\$14.95	\$13.35	\$11.70

Weatherproof Cigarette Lighter Socket - 15A

Suitable for marine, caravan, 4WD, camping or anywhere you need 12V power. Protected from the elements by a spring-loaded sealed cover and fully sealed electrical connection.

- Panel mounting.
- 32mm mounting hole
- Flylead termination.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2011	\$14.95	\$13.35	\$11.70

MERIT AUTOMOTIVE CONNECTORS

Merit Plugs & Sockets

Smaller in size than existing cigarette lighter connectors, they also have the advantage of a superior rugged construction and higher current carrying capability. The panel sockets feature a flip down cover to resist ingress of moisture and dust, and can withstand long periods of sustained current draw (unlike the el-cheapo versions of these connectors). We have even included a modular merit plug to cigarette lighter adaptor in our range for those people who need both styles in a single connector (like those used on popular brands of 4WD fridges and spotlights).

- PP-2090 Unfused Merit Plug (15A)
- PS-2092 Merit Panel Socket with Sprung cover (max 15A)
- PP-2094 Merit Plug with Cigarette Lighter adaptor (fused max 8A)
- PS-2096 In-line Merit Socket with Cover (max 15A)



PP-2094



PS-2092



PP-2090



PS-2096

↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Unfused Plug	PP-2090	\$6.95	\$6.25	\$5.55
Plug with Cigarette Lighter Adaptor	PP-2094	\$6.95	\$6.25	\$5.50
Panel Socket with Sprung Cover	PS-2092	\$9.95	\$8.75	\$7.75
In-line Socket with Cover	PS-2096	\$6.95	\$6.25	\$5.50

MARINE GRADE CIGARETTE PLUGS & SOCKETS

Marine Grade 10A Locking Cigarette Plugs & Sockets

Marine grade, weather and UV resistant. Ideal for situations where your 12V gear will face mud, dust, salt and other contaminants. A matched locking plug and socket will lock together securely for protection against vibration and shock, or happily work individually with normal cigarette plugs/socket as well.

- PP-1970 plug features a green power LED indicator
- Rated current: 10A
- Fuse protected (PP-1970)
- PS-1972 features protective dust cap and mounting panel
- Locking pins so stay plugged in when plug and socket matched
- Dimensions:
 - PP-1970: 90(L) x 25(Dia)mm
 - PS-1972 panel: 59(L) x 43(W) x 4(D)mm, socket 40(L) x 36(Dia)mm
 - PS-1974: 70(L) x 51(H) x 58(W)mm



↑	Cat.	Qty 1+	Qty 10+	Qty 50+
Cigarette Plug with LED	PP-1970	\$6.95	\$6.25	\$5.50
Panel Mount Socket + Dust Cover	PS-1972	\$6.95	\$6.25	\$5.50
Surface Mount Socket with Dust Cover	PS-1974	\$12.95	\$11.35	\$10.35

Need more than 10 amps? Why not have a look at Anderson Connectors. They start on page 472

Marine Grade 10A Cigarette Power Sockets

High current, marine grade cigarette power sockets capable of up to 10A current, and supplied with multiple mounting options. There is a flat mounting panel, an under dash bracket (for PS-2020 only), and a surface mounting "hood".

- Connections via 6.3mm spade terminals

Four versions available:



SINGLE CIGARETTE POWER SOCKET

Includes panel, under dash & surface mount brackets
PS-2020

DUAL CIGARETTE POWER SOCKETS

Includes panel & surface mount brackets
PS-2022

CIGARETTE POWER SOCKET AND LED VOLTMETER

Includes panel & surface mount brackets
PS-2024

CIGARETTE POWER SOCKET & 2 PORT USB CHARGER (3.5A)

Includes panel & surface mount brackets
PS-2026

- Dimensions - Panel mount:
- Single - 60(W) x 42(H)mm
 - Dual - 100(W) x 42(H)mm

Surface mount hoods:

- Single - 55(W) x 80(L) x 50(H)mm
- Dual - 98(W) x 78(L) x 49(H)mm
- Under dash bracket: 58(W) x 51(H) x 15(D)mm (PS-2020 only)

↑	Cigarette	Cat.	Qty 1+	Qty 10+	Qty 50+
	Socket - Single	PS-2020	\$14.95	\$13.45	\$11.95
	Socket - Dual	PS-2022	\$19.95	\$17.95	\$15.70
	Socket with LED Voltmeter	PS-2024	\$27.95	\$24.95	\$22.35
	Socket with 2 USB Ports	PS-2026	\$29.95	\$26.95	\$23.70

CIGARETTE LIGHTER ADAPTORS & EXTENDERS

Fused Cigarette Lighter Plug to 2.1mm DC Plug

Has an internal fuse & LED power indicator.

- Supplied with 3A, 3AG fuse
- Cable length 500mm
- LED power indicator



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	500mm	PP-1993	\$2.95	\$2.60	\$2.30

Fused Cigarette Lighter Plug to DC Plug

Has an internal fuse and LED power indicator.

- Supplied with 5A, 3AG fuse
- Cable length 1.5m



↑	Length	DC Plug	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.5m	2.5mm	PP-1997	\$4.95	\$4.45	\$3.90
	1.5m	2.1mm	PP-2008	\$4.95	\$4.45	\$3.90

Replacement Power Lead for Thermoelectric Cooler/Warmers

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input.

- Can fit into cigarette or merit sockets
- 1.8m long



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.8m	PP-1986	\$17.95	\$16.10	\$14.35

Cigarette Lighter Adaptor Cable

Contains no circuitry and allows you to power 12V devices from your car cigarette lighter socket.

- Cable length 1.8m long
- Fused
- LED power indicator. Supplied with 8 DC plugs. 2.35 x 0.75, 3.5 x 1.35, 4 x 1.7, 5.5 x 1.5, 5 x 2.1, 5.5 x 2.5, 2.5mm & 3.5mm. (OD first then ID)



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.8m	PP-1996	\$9.95	\$8.95	\$7.95

Car Lighter Socket To Clips

This lead simply clips onto car battery terminals and has a cigarette lighter socket on the other end.



↑	Length	Cat.	Qty 1+	Qty 10+	Qty 50+
	400mm	PP-2007	\$9.95	\$8.75	\$7.75

Cigarette Lighter Extension Cord

Cigarette lighter extension cord with dust cover. Extend the range of your cigarette lighter devices.

- Fuse: 5A



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	300mm	PP-1992	\$14.95	\$13.45	\$11.95

Heavy Duty 10A Cigarette Power Extension Lead - 5m

This cigarette power extension lead has been specifically designed to carry 15A continuous current with minimal voltage drop (max 10% at 15A). This allows you to move your DC fridge/freezer and other DC equipment some distance away from your battery, whilst minimising low voltage protection issues. Very handy on the campsite or in your caravan. Fitted with a convertible cigarette/merit plug and high current cigarette socket, and made with 14AWG tinned copper cabling.



↑	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	5 metres	PP-2151	\$49.95	\$44.95	\$39.95

AUTO & OUTDOORS

CIGARETTE LIGHTER PLUGS, SOCKETS & ADAPTORS

CIGARETTE LIGHTER ADAPTORS & EXTENDERS (CONTINUED)

15A Heavy Duty Cigarette Lighter Extension Lead - 3m

A heavy duty waterproof cigarette lighter extension lead to extend the reach of your 12VDC devices. Features internal fuse protection with LED power indicator. Fits all 12VDC plugs & sockets. Flexible curly cord design.



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3 metres	PP-2144	\$12.95	\$11.35	\$10.35

Cigarette Lighter Plug to Merit Socket Adaptor

This handy adaptor lead allows you to connect your device equipped with a merit plug into a standard cigarette lighter socket.



Length	Cat.	Qty 1+	Qty 10+	Qty 50+
300mm	PP-2098	\$12.95	\$11.35	\$10.35

Cigarette Lighter Double Adaptor

Incorporates a lighter plug and two inline sockets

- 150mm cable



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	PP-2006	\$9.95	\$8.75	\$7.75

Merit Plug to Cigarette Lighter Socket

Allows you to connect mobile phone chargers and other cigarette lighter plugged devices into vehicles equipped with a Merit socket.



Length	Cat.	Qty 1+	Qty 10+	Qty 50+
300mm	PP-2099	\$12.95	\$11.35	\$10.35

CIGARETTE LIGHTER ADAPTORS & SPLITTERS

12VDC Cigarette Lighter Twin Socket

Allows you to run two 12V appliances from the one socket.

- Input voltage: 12-24VDC
- Output voltage: 12-24VDC
- Output current: <6A
- LED indicator.



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-2005	\$9.95	\$8.75	\$7.75

Individually Switched 3 Cigarette Socket with USB

3 x 12V cigarette lighter sockets that are individually switched. There is a USB port on the 12V plug, and another on the main unit with on/off switch so you can charge your USB powered gadgets as you drive.



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-2131	\$29.95	\$26.95	\$23.95

12/24VDC Cigarette Lighter Socket Splitter with 2 x USB Ports

Power two 12V accessories and 2 x USB devices at the same time. Features a fused cigarette lighter plug on a 650mm lead, and mounting holes for a permanent installation.

- Input: 12/24VDC
- Output: Cigarette Lighter Sockets: 2 x 3A max each / USB Ports: 2 x 5V 2.1A total
- Cable length: 650mm
- Dimensions: 114(L) x 50(D) x 33(H)mm



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
650mm	PP-2136	\$15.95	\$14.35	\$12.75

12VDC Car Cigarette Lighter Socket 4 Way Splitter with USB Port

This socket splitter enables you to power up to four 12VDC plug appliances at once. Plus it features a USB port to charge your iPhone® or other USB gadget. Comes with a detachable mounting base so you can mount this unit horizontally or vertically on your dash or centre console, and detach it for flexible use. Use this socket splitter with our 12V plug to socket extension cord PP-1990 to enjoy more creature comforts in your tent on your next camping trip.

- 12VDC plug with 1.2m lead / 4 x 12VDC socket outputs
- 1 x 5VDC 1A USB port / 10A max



Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2m	PS-2019	\$19.95	\$17.95	\$15.95

BIKE MOUNT POWER SOCKETS

Motorcycle Cigarette Lighter Socket Mount

A motorcycle 12 volt power outlet is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a 12V cigarette lighter socket. It can be used as a power outlet for spotlight, or anything that can be powered by a 12 volt battery.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1.5m cable with inline fuse



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS-2126	\$19.95	\$17.95	\$15.95

Motorcycle Dual USB Socket Mount

A motorcycle Dual USB Port is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a USB port. It can be used as a power outlet for GPS, mobile phone charger or anything that can be powered by a USB Socket.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1 x 1A & 1 x 2.1A 5V output (3.1A total)
- 1.5m cable with inline fuse



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS-2128	\$24.95	\$22.45	\$19.95

AUTO & OUTDOORS

USB CHARGING & AUTO MONITORING

USB UNDERDASH SOCKET

USB Socket with Weatherproof Cap

A USB power socket with weatherproof cover, suitable for mounting on motorbikes, under-dash on boats or open-top cars. Outputs 5VDC to power or charge Smartphones, Tablets, GPS, etc. Mount to almost any surface using screws, cable ties, double-sided tape, etc (Mounting hardware not included). Supplied with 1.2m fused lead with SAE connectors for easy disconnect.



- Power input: 12/24VDC
- Output: 5VDC, up to 2.1A



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB 1.2m	PS-2017	\$22.95	\$20.65	\$18.35

Under-Dash or Panel Mount USB Socket

This handy fitting enables you to position a USB outlet under a wooden, fibreglass or metal dashboard complete with rubber plug moisture/dust cover. Alternatively, you can remove the actual USB insert to panel mount the USB socket. The insert requires a 22mm Dia hole but it will go through upto 38mm of panel so your panel can be wood if necessary. This is a very versatile fitting and you have to see it to appreciate what it is capable of.



- Output: 5VDC, 2.1A
- In-line fuse holder included
- Sealing washers/gaskets included
- Mounting screws included
- Smart silver trim bezel included

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB	PS-2016	\$10.95	\$9.75	\$8.75

Dual USB Charging Ports 4.2A Output 12/24VDC

A dual USB port is a great addition to your vehicle when out touring. It can be used as a power outlet for GPS, mobile phone charger or anything that can be powered by a USB Socket.



- Input power: 12/24VDC
- Total 5V 4.2A output



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 x USB	PS-2028	\$27.95	\$24.95	\$22.35

USB CIGARETTE LIGHTER CHARGERS

2 Port USB Charger with 3.1A Output, 12/24VDC

Get rid of your messy cigarette lighter car chargers, and fit something more permanent and better looking. This 2 port USB charger has one port with 1.0A for charging a Smartphone, and the 2nd port can deliver 2.1A for fast charging your Tablet. Input power compatible with 12V and 24V battery systems, with connection via 6.3mm spade terminals.



- Supplied with panel mount, under dash bracket, and a surface mount "hood"

Dimensions:

- 2port USB Charger: 36(Dia) x 50(D)mm
- Panel mount: 60(W) x 42(H)mm
- Under dash bracket: 58(W) x 51(H) x 15(D)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3616	\$24.95	\$22.50	\$19.95

2 Port Panel Mount USB Charger - 3.1A Output 12/24VDC

This two port USB panel mount charger is designed for charging your electronic devices. It has a black housing with a rubber weather-flap cover to protect the USB sockets. Ideal for quickly charging a GPS, iPhone®, iPod®, PSP, mobile phones, camera and other digital devices. Designed in the same housing as our range of laser etched auto rocker switches, enabling you to mount them side by side to give a great look to the switch panel in your 4WD, RV, or Caravan etc.



- Dual USB output 5V, 3.1(Shared between two ports)
- Fused, easy to install
- Input: 12-24VDC
- Output: 5VDC
- Dimensions: 43(L) x 40(D) x 24(W)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3618	\$24.95	\$22.50	\$19.95

Panel Mount Volt Meter with 2 Port USB Ports

This panel mount voltmeter will show your car battery voltage as well as provide 2 USB ports with a total of 4.2A output for charging your phone or other USB devices. Suitable for 12 and 24 volt vehicle electrical systems.



- Dimensions: 43(L) x 40(D) x 24(W)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3619	\$34.95	\$31.45	\$27.90

BATTERY MONITORS

Car Battery Monitor with 3 x USB Sockets

Plugs into the car's cigarette lighter socket to display the car's battery voltage, and at the same time power your Smartphone, GPS and other USB powered devices via the 3 x USB ports. It is also suitable for trucks and large boats that run on 24V. You will need to provide your own USB charging lead.



- Input power: 12/24V
- Output power: 5VDC/3.1A total
- Dimensions: 60(W) x 30(H) x 28(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3 x USB	PP-2138	\$24.95	\$22.50	\$19.95

Self Powered Round LED Voltmeter 5-30VDC

Quite possibly the easiest way to monitor your battery voltage, or the voltage in any DC powered system. Simply wire up to a positive and negative DC power source of 5-30VDC, and the voltmeter tells you the voltage (taking power from the DC source to operate). Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.



- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
LED Voltmeter	QP-5582	\$22.95	\$20.35	\$18.35

Panel/Surface Mount LED Voltmeter and Ammeter

Quite possibly the easiest way to monitor battery voltage and current draw on your van, RV or boat. Simply follow the included wiring diagram to measure 5-30VDC, and 0 to 10A DC. Supplied with a panel mount and a surface mount "hood". Connection is via three 6.3mm spade terminals (current shunt built-in).



- Volt/Current Meter: 36(Dia) x 40(D)mm
- Panel Mount: 60 (W) x 42 (H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Volt & Amp Meter	QP-5584	\$39.95	\$35.90	\$31.90

SAE POWER LEADS

SAE Type Plug to Cigarette Lighter Plug or Socket

These units consist of the popular polarised SAE plug/skt to a line cigarette lighter socket. The socket has a rubber moisture/dust cover. The lead assembly is 450mm long and the wiring is 10A rated, unfused.

Three models available.



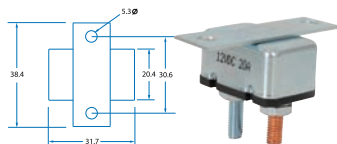
	Cat.	Qty 1+	Qty 10+	Qty 50+
SAE Plug to Battery Fused Lead	PP-2012	\$9.95	\$8.75	\$7.75
SAE Plug to Cigarette Plug Lead	PP-2014	\$9.95	\$8.75	\$7.75
SAE Plug to Cigarette Socket Lead	PP-2016	\$9.95	\$8.75	\$7.75

CIRCUIT BREAKERS

Chassis Mount Auto Circuit Breakers

Single pole thermal circuit breaker.

- Auto reset.



Looking for relays? See pages 190 - 191

Current	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF-4100	\$7.95	\$6.95	\$6.25
30A	12VDC	SF-4102	\$7.95	\$6.95	\$6.25
40A	12VDC	SF-4104	\$7.95	\$6.95	\$6.25
50A	12VDC	SF-4106	\$7.95	\$6.95	\$6.25
20A	24VDC	SF-4108	\$7.95	\$6.95	\$6.25

Heavy Duty Panel Mount Circuit Breakers

A range of heavy duty and high quality panel mount circuit breakers. The reset switch on these units are high grade and will not fail in short period unlike other units in the market. It has a protective plastic cover to prevent accidental shortage. Incorporates multi-wire gauge inputs and outputs, they are perfect for high end car audio installations, automotive wiring or solar installations. Terminals are platinum plated. Measures at 85(W) x 68(H) x 35(D)mm.



Current	Cat.	Qty 1+	Qty 4+	Qty 10+
60A	SZ-2081	\$39.95	\$35.95	\$31.95
120A	SZ-2083	\$39.95	\$35.95	\$31.95
200A	SZ-2085	\$39.95	\$35.95	\$31.95

CIRCUIT BREAKERS - BLADE FUSE SIZE

A blade fuse that doesn't need replacing! This new range of mini and standard size Blade circuit breakers are designed to directly replace standard or mini blade fuses. No need to fumble around in the dark looking for the blown fuse or to dig around in the toolbox for a suitable replacement. Choose between manual or automatic reset types. The manual type suit

Mini Blade Circuit Breakers - Manual Reset

- Voltage: Circuits up to 28VDC
- Body dimensions: 25(L) x 12.5(W) x 7(D)mm (excludes 1mm reset button)
- Total length including blades: 35mm (excludes 1mm reset button)



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Manual	SF-2352	\$5.95	\$5.50	\$4.75
10A	Red	Manual	SF-2354	\$5.95	\$5.50	\$4.75
15A	Blue	Manual	SF-2355	\$5.95	\$5.50	\$4.75
20A	Yellow	Manual	SF-2356	\$5.95	\$5.50	\$4.75

Mini Blade Circuit Breakers - Auto Reset

- Voltage: Circuits up to 14VDC
- Body dimensions: 25(L) x 12.5(W) x 6(D)mm
- Total length including blades: 35mm



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Auto	SF-2342	\$5.95	\$5.50	\$4.75
10A	Red	Auto	SF-2344	\$5.95	\$5.50	\$4.75
15A	Blue	Auto	SF-2345	\$5.95	\$5.50	\$4.75
20A	Yellow	Auto	SF-2346	\$5.95	\$5.50	\$4.75

Standard Blade Circuit Breakers - Manual Reset

- Voltage: Circuits up to 28VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm (excludes 1mm reset button)
- Total length including blades: 31mm (excludes 1mm reset button)



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Manual	SF-2330	\$5.95	\$5.50	\$4.75
7.5A	Brown	Manual	SF-2331	\$5.95	\$5.50	\$4.75
10A	Red	Manual	SF-2333	\$5.95	\$5.50	\$4.75
15A	Blue	Manual	SF-2334	\$5.95	\$5.50	\$4.75
20A	Yellow	Manual	SF-2335	\$5.95	\$5.50	\$4.75
25A	White	Manual	SF-2336	\$5.95	\$5.50	\$4.75
30A	Green	Manual	SF-2337	\$5.95	\$5.50	\$4.75

Standard Blade Circuit Breakers - Auto Reset

- Voltage: Circuits up to 14VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm
- Total length including blades: 31mm



Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Auto	SF-2320	\$5.95	\$5.50	\$4.75
7.5A	Brown	Auto	SF-2321	\$5.95	\$5.50	\$4.75
10A	Red	Auto	SF-2323	\$5.95	\$5.50	\$4.75
15A	Blue	Auto	SF-2324	\$5.95	\$5.50	\$4.75
20A	Yellow	Auto	SF-2325	\$5.95	\$5.50	\$4.75
25A	White	Auto	SF-2326	\$5.95	\$5.50	\$4.75
30A	Green	Auto	SF-2327	\$5.95	\$5.50	\$4.75

Workbench sent to us by: Benjamin Jaycar Store: Wellington, NZ

This is my Lab where I create Arduino & other Project's.

I love to create Custom Hardware! My project I am currently working on is a Long Board Lighting System using a Arduino Nano 3.0 and a Bluetooth module.

For more details, visit:
www.jaycar.com.au/workbench



BLADE FUSE HOLDERS (CONTINUED)

30A Blade Fuse Holder with Screw Terminals

This blade fuse holder with in-built screw terminals provides a simple wiring solution to situations where circuit protection is required.

- Current: 30A maximum
- Dimensions: 35(L) x 32(W) x 6(D)mm

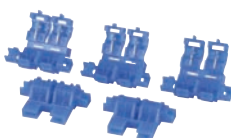


Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A	SZ-2044	\$5.95	\$5.50	\$4.75

20A Self Crimping Blade Fuse Holders - Pack of 5

These are very simple blade fuse holders to install. The self crimping feature is easy to use and saves on installation time. No wire stripping or twisting required. No special tool required; just push in the wire and squeeze.

- Supplied as a pack of 5
- Dimensions: 35(L) x 35(W)mm while open



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 20A Pack of 5	SZ-2049	\$3.95	\$3.55	\$3.15

30A Waterproof Blade Fuse Holder with Long Transparent Cover

Quality transparent waterproof blade fuse holder. They are long enough to accept the circuit breaker blade fuse replacement models. The transparent cover allows you to inspect if a manual c/b has tripped, or able to see if an LED fuse has illuminated. This fuse holder provides extra protection against water and dust, ideal for marine applications.

- Dimensions: 65(L) x 25(W) x 15(D)mm



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A Waterproof	SZ-2047	\$6.95	\$6.25	\$5.50

30A Stackable Blade Fuse Holder (In-Line Style)

These fuseholders accept standard blade fuses. They slide together if more than one is required, so you could have a bank of these mounted in your car. They have a cap over the front which makes them look very neat and tidy.

- Handle 30 amps.
- Supplied with a wire loop - can be cut to suit
- Low volt DC only
- Dimensions: 41(L) x 24(H) x 10(W)mm



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A	SZ-2045	\$3.95	\$3.45	\$3.15

6 Way Automotive Fuse Box

Fits six standard car blade fuses. Fibreglass reinforced nylon base with splashproof polycarbonate cover.

- 32VDC max
- 15A/circuit max
- 45A/block max
- 6.3mm QC terminals
- Measures 112(L) x 46(W) x 40(H)mm



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 6 Way	SZ-2002	\$12.95	\$11.35	\$10.35

10 Way Blade Fuse Block with LED Indicators

Perfect for automotive or marine applications. Features a common supply rail and includes a removable protective cover and LED indicators for each fuse.

- 10 way
- Dimensions: 95(L) x 85(W) x 36(H)mm
- Input: 100A Max
- Output: 30A Max Per Circuit

Fuses not included



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 10 Way	SZ-2008	\$24.95	\$22.45	\$19.95

10 Way Weatherproof Fuse Block with LED Indicators

This 10-way weatherproof fuse block is perfect for marine applications, keeping fuse and wiring connections well protected from corrosion. Each fuse socket has an LED indicator to give you quick indication of blown fuses, and there are also a number of slots to fit spare fuses. Designed for panel mount applications.

- Dimensions: 125(W) x 89(H) x 47(D)mm



Fuses not included (without cover)

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 10 Way	SZ-2001	\$34.95	\$31.45	\$27.95

Modular Design Negative Bus Bar & Blade Fuse Block

These modular design negative bus bar and blade fuse holder series are ideal for marine and auto applications. These two models can be combined to make four popular fuse blocks depending on requirements. Each fuse block enables 6 fused circuits; mount two units neatly together to enable 12 fused circuits, in addition you can mount the 12P negative bus bar to either option just mentioned or use it alone as required. See our website for images of how the system works. These fuse blocks come with blown fuse indication LEDs and transparent cover with recessed areas for label stickers. The assembly process is quite easy and can be done using the supplied instruction manual.

- Accepts automotive blade fuses (ATP/ATC/ATO)
- Modular design saves shelf space
- Transparent cover with recessed areas
- 60 pieces assorted label stickers set included
- Storage for 2 spare fuses (for each 6P blocks)
- LED indication for blown fuses



Specifications	SZ-2011	SZ-2013
Voltage rating	32VDC max	32VDC max
Amp rating per branch	30A (screw terminals)	30A (screw terminals)
Maximum cumulative Amp	100A per block	100A per block
Terminal stud size	M5 (3/16")	M5 (3/16")
Screw size	M4 (5/32") x 12pcs	M4 (5/32") x 6pcs
Dimensions	86(W) x 57(L) 41(H)mm	86(W) x 78(L) 41(H)mm

Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
32VDC	SZ-2011	\$19.95	\$17.95	\$15.70
32VDC	SZ-2013	\$34.95	\$31.45	\$27.90

BUS BARS

150A Insulated Bus Bar

This quality bus bar features a raised insulating base that isolates the bus bar from earthed or other live chassis. It features 2 x 5mm bolted terminals for connecting main power feeds, and 10 screw terminals for connecting lower current feeds of up to 10A each. Total current capacity is 150A, and is suitable for 12-32V wiring. 2 countersunk screw holes for 5mm metric fasteners.

- Not suitable for 240V active circuits
- Dimensions: 145(L) x 30(W) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2012	\$16.95	\$15.25	\$13.55

Gold Fuses, Fuse Holder & Gold Distribution Blocks are also available - see page 178-179

Full range of Glass Fuses M205 3AG 5AG see page 178

ANL WAFER FUSES & HOLDERS

Gold ANL Wafer Fuses

These wafer fuses feature gold finish screw-down contacts for maximum current transfer and conductivity and are designed for really high current applications such as for car audio amplifiers, etc.

- Use with our SZ-2075 - Inline Wafer Fuseholder.
- 5 current ratings available.



AMP-KING

Current	Cat.	Qty 1+	Qty 4+	Qty 10+
80A	SF-1990	\$8.95	\$7.95	\$6.95
100A	SF-1992	\$8.95	\$7.95	\$6.95
150A	SF-1995	\$8.95	\$7.95	\$6.95
200A	SF-1997	\$8.95	\$7.95	\$6.95
250A	SF-1999	\$8.95	\$7.95	\$6.95

WHO WOULD HAVE THOUGHT FUSES WERE SO CONFUS(E)ING!

Your head may be spinning from the range of fuses over the last few pages. Finding a replacement for a blown fuse is fairly straightforward, but working out the right fuse for you in a new installation can be daunting! No problem. Simply call into any Jaycar store or Stockist and our friendly staff will guide you all along the way. Happy wiring!

ANL In-line Fuse Holder

A solid brass ANL inline fuse holder that is nickel plated. A great looking and functional fuse holder that is suitable for high end car audio installations.

- Dimensions: 95(L) x 50(W) x 36(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2078	\$14.95	\$13.45	\$11.95

JUMP STARTER COMPARISON GUIDE

It was not until battery manufacturers came up with small (generally) lead-acid batteries with low internal impedance that enabled these products to emerge. With such battery technology, it was possible to make a portable power source in a reasonably lightweight package with enough grunt to be useful. Up until that point you had to borrow a full-size battery - or a nearby vehicle to jump-start a car or truck.

Even if that jump-start capability was the only feature, they'd be worth having. But, in addition they have other in-built features which include: small air compressors, AC/DC chargers, USB outlets, 240V inverters & jumper cables! No wonder these products are some of the fastest sellers in the Jaycar range. There is no reason why everyone who owns a car, 4WD, boat, caravan, truck etc. would not have one.



Use our selection guide to help choose...

	MB-3754	MB-3760	MB-3762	MB-3730	MB-3732	MB-3765	MB-3756	MB-3752
Voltage	12V	12V	12V	12V	12V	12V	12/24V	24V
Cranking Current	300A	270A	450A	300A	600A	300A	800A	400A
Amp Hours	6AH	2.6AH	4.5AH	5.5AH	18AH	No Battery	22.2AH	3.3AH
Battery Type	Li-ion	LifePo4	LifePo4	SLA	SLA	Super capacitors	Li-ion	Li-Po
LED Light	✓	✓	✓	-	✓	-	✓	✓
USB out	1 x 2.1A	1 x 2.4A	1 x 2.4A	1 x 2.1A	2 x 4.5A total	-	1 x 2A	1 x 2.1A
Air compressor	-	-	-	-	✓	-	-	-
Inverter	-	-	-	-	400W	-	-	-
Page	484	484	484	485	485	485	486	486

Pocket Size Jump Starter/Power Bank

This ultra-portable and lightweight external battery is capable of jump starting 12V dead batteries in cars, motorcycles, boats, jet skis and ATVs. Furthermore, it also recharges Smartphones, Tablets, digital cameras, camcorders, GPS and any other 5VDC powered electronic devices. Includes a set of what is called the 'Ingenious Spark-proof Clamp'. The Spark-proof technology is ultra-safe, and along with the Reverse Polarity Protection, protects user from potentially dangerous scenario if the cables are accidentally connected to the wrong battery terminals.

Recommended Vehicle Engine Displacement for Jump Starting:
Up to 6-cylinder petrol engines - 3500cc or below
Up to 4-cylinder diesel engines - 2000cc or below

Specifications	MB-3754
Battery Capacity	6000mAh
Battery Type	Lithium-ion
Battery Standby Time	Up to 6 Months
Battery Life Cycle	500+
Jump Start Current	150 - 300A
Operating Temperature	-20°C to 60°C
USB Output	5V/2A
Input	5V/2A
Dimensions	135(L) x 78(W) x 15(H)mm, 210g

This will fit in an average car glovebox!



	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 150 - 300A	MB-3754	\$149.00	\$133.95	\$118.95

TECH TALK!!

LiFePO4 EXPLAINED

Lithium iron phosphate (LiFePO4) is a technology proving to overcome the safety concerns that exist with Lithium ION (Li-ION) and other lithium battery technologies because it is chemically more stable. In particular, LiFePO4 is able to deliver extremely high surge currents without risk of the battery chemistry breaking down (and the battery exploding), holds a charge for a very long time, and is far more stable when exposed to high heat and other environmental conditions.

LifePo4 12V Jump Starters with Battery & Alternator Test

These jump starters have a built-in LiFePO4 battery, making them compact and lightweight, but still powerful enough to jump start cars, motorbikes, SUVs and boats. Both models feature a 1W LED light which can be used as a worklight or set to flash as a warning light, USB ports to charge your USB devices. The blue backlit LCD will indicate the internal battery charge as a percentage, the vehicle's battery voltage and a host of other messages. The units can also test the battery and alternator condition via your vehicle lighter socket!.

Both models feature:

- Battery and alternator tester
- Reverse polarity and short circuit protection
- USB port (2.4A total): 1 x USB (MB-3760), 2 x USB (MB-3762)
- LED work light
- USB charge cable and test lead included

• Dimensions:

MB-3760 - 185(L) x 100(D) x 50(H)mm

MB-3762 - 230(L) x 140(D) x 70(H)mm



MB-3760



MB-3762



	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 270A	MB-3760	\$199.00	\$178.95	\$158.95
12V 450A	MB-3762	\$299.00	\$269.00	\$239.00

JUMP STARTERS (CONTINUED)

12V 3-in-1 Jump Starter with Spiral Wound Battery

This versatile jump starter features a built-in 5.5A spiral wound battery that does not leak, has longer storage time (up to 5 times longer than the lead acid battery) and can operate under temperatures between -40 to 70°C. It also features a 12VDC cigarette lighter socket for operating 12V appliances and a 5VDC 2.1A USB socket for charging and operating USB devices. The LCD display not only displays the battery capacity of the jump starter, it will also display the capacity of the vehicle battery when connected.

- Built-in 12V 5.5A Spiral battery
- 300A cranking jump start power
- 1 x 12VDC cigarette lighter socket for running 12V appliances
- 1 x 5VDC 2.1A USB socket for charging USB devices
- LCD display to show the battery level of both car and the jump starter.
- Mains charger included
- Jump start lead length: 550mm
- Dimensions: 205(H) x 210(W) x 95(D)mm



Type	Voltage	Cranking	Cat.	Qty 1+	Qty 2+	Qty 4+
3-in-1	12V	300A	MB-3730	\$119.00	\$106.95	\$94.95

12V 7-in-1 Jump Starter Power Station

A versatile jump starter that incorporates a raft of essential functions for general automotive, camping and emergency situations. Tucked in on either side are two tough insulated battery clamps for jump starting a vehicle. The front panel features 2 x 12VDC cigarette lighter sockets for operating 12V appliances, a 5 LED powered work light and two digital display indicators for remaining battery capacity and air pressure. There is also a DC socket as well as an LED polarity indicator to warn if your connections are reversed. An extremely useful 260PSI (Displays 99 Max) air compressor is also built into the unit so you can inflate a flat car tyre or other inflatables, by simply setting the pressure on the digital gauge and the compressor will automatically inflate to the set pressure. Inflating pressure can be viewed from the front digital readout and switched between PSI and BAR. The unit also features a 400W inverter output at the rear and two 5VDC USB sockets with combined power of 4.5A for charging and operating Smartphones, Tablets, or other USB devices. Black rubber handle and corners will protect against common knocks and accidental drops. Built-in Battery Diagnostic Tester which provides a percentage of charge and battery health of the built in battery and the battery it connects to.

- Automatic air compressor for pumping tyres and other inflatables
- AC and DC chargers included
- 12V 18Ah SLA battery inside
- 400W (800W surge) modified sine wave Inverter - 230VAC outlet at rear for powering laptops, etc
- 5 LED work/map light at front panel
- Charging and air compression dial indicators
- 2 x 12VDC sockets for running 12V appliances
- 2 x 5VDC USB sockets with 4.5A (2.1A + 2.4A) combine power for charging and operating USB devices.
- Built-in Battery Diagnostic Tester which provides a percentage of charge and battery health of the built in battery and the battery it connects to.
- DC charging takes approximately 12 hours, AC charging takes approximately 34 hours
- Charging jack
- Built in air cooling fan
- Battery level indicator
- 600A cranking, 900A Max
- Dimensions: 295(H) x 273(W) x 215(L)mm

Will start most diesel 4WD's



Type	Voltage	Cranking	Cat.	Qty 1+	Qty 2+	Qty 4+
7-in-1	12V	600A	MB-3732	\$229.00	\$205.95	\$182.95

Capacitor Based 12V 300A Jump Starter

Battery free means maintenance free! Just a 60 second charge is all that is required to charge the internal super capacitors! No need for a top-up during storage and super lightweight for easy handling. It features 300A cranking current, GLOW mode to cold start a diesel engine, and bypass mode to start an engine without any battery mounted. It can generally start a warm 4.0L or cold 3.0L petrol engine, or 2.0L diesel engine. There is a built-in voltage meter to read the vehicle's battery voltage, and it can also operate in freezing temperatures. Charge using the supplied 12V lead, from a 12V car battery or from a USB power source (15 min charge).

- 300A cranking current
- 60 seconds quick charge
- 10 year shelf life
- Voltage indicator
- Includes a 5V 2A Micro USB input port
- DC12V 10A input port
- Operating temperature: -40 to +65°Celsius
- Short circuit/reverse polarity protection
- Fault/override indicator
- 203 x 124 x 50mm, 1.18kg

This will fit in an average car glovebox!



Type	Voltage	Cranking	Cat.	Qty 1+	Qty 2+	Qty 4+
Battery Free	12V	300A	MB-3765	\$229.00	\$205.95	\$182.95

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.

Conditions apply - see page 528 for details.

JUMP STARTERS (CONTINUED)

12/24V 800A Li-Ion Jump Starter/Power Bank

This is a no-nonsense heavy-duty jump starter suitable for most 12V or 24V vehicles including bus, trucks, cars, boats, jet ski, etc. It is capable of jump starting multiple times per single charge and works on both petrol and diesel engines. The Lithium-ion battery inside the robust enclosure produces an incredible 800A peak current and has a capacity of 22,000mAh. The jump starter also has 5V USB output to charge Smartphones, Tablets, digital cameras, GPS devices and much more. Also an LED light is built-in for emergency use.

Supplied with spark-proof alligator clamps, carry case and power adaptor.

Specifications	MB-3756
Battery capacity	22,200mAh
Battery type	Li-ion
Jump start current	12V (400-800A), 24V (300-600A)
Output	5V/2A; 12V/24V Jump start
Input	14V/1A (AC&DC Adaptor included)
Operating Temperature	-20°C to +60°C
Dimensions	240 x 210 x 58mm
Weight	1.6kg

This unit will fit under the seat of most cars & 4WDs.



Type	Voltage	Cranking	Cat.	Qty 1+	Qty 2+	Qty 4+
Li-Ion	12 / 24V	800A	MB-3756	\$349.00	\$315.00	\$279.00

24V Heavy Duty Jump Starter/Power Bank

A 24V Heavy Duty Jump Starter with a high-capacity Li-Po battery built-in, capable of delivering up to 400A output. It features a power bank function with a USB output that can charge 5V devices up to 2.1A, suitable for Smartphones and Tablets. The LCD provides useful information such as battery status and the output voltage. This versatile unit also contains a front facing 3W LED light and a 49 LED worklight that fold opens from the side. It also features a user selectable 12VDC or 19VDC output, up to 3.5A (65W) via a common DC output lead with interchangeable plugs, suited for charging laptops or other similar items. It is also packed with safety features that include overload, over-temperature, short-circuit and reverse polarity protection.

Supplied with a battery clips, In-car and home mains charger and interchangeable DC plugs.

Specifications	MB-3752
Jump Starter output	24V, 400A
USB output	5V, 2.1A
DC output	12V / 19V 3.5A (65W)
Charge input	12VDC/2A
Dimensions	190(L) x 150(H) x 90(W)mm
Weight	1.3kg

Will start a Large Cruiser Boat!



Type	Voltage	Cranking	Cat.	Qty 1+	Qty 2+	Qty 4+
3-in-1	24V	400A	MB-3752	\$399.00	\$359.00	\$319.00

BATTERY TESTER

12VDC Lead Acid Battery Tester

This battery tester quickly, easily, and accurately measures the actual cold cranking amps capability of the vehicle starting battery. It tests most automotive cranking lead acid batteries, including an ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and GEL battery, etc. It can identify a battery with bad cells, has reverse polarity protection, and meets major battery testing standards such as CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB. The handy device features an LCD display to indicate the results, a menu tab and clips to connect the battery tester to the vehicle's battery.

- Voltage Measure Range: 6-30VDC
- Dimensions: 125(L) x 70(W) x 25(H)mm



Note: Battery not included



Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	QP-2261	\$84.95	\$76.45	\$67.95

RELATED PRODUCTS

Heavy Duty 400A Jumper Leads with LED Illumination

A super handy set of jumper leads to leave in the back of the car! Each battery clamp has a LED light built in, powered by built-in batteries, so even in the dark you can find your way around the engine bay. The jumper leads are fitted with a voltage surge protector to keep your vehicle electronics safe. Supplied in a clear plastic carry case.

- Voltage surge protection
- 400A current rating
- 8 x LR44 button batteries included
- 3m long



	Cat.	Qty 1+	Qty 3+	Qty 6+
400A 3m long	WH-6012	\$34.95	\$31.45	\$27.95

Extra-Heavy Duty 700A Jumper Leads with LED Illumination

These extra-heavy duty jumper leads have battery clamps with a helpful LED light built in, so you can find the battery terminals even in pitch black darkness. Rated at 700A, they are suitable for higher CCA (cold cranking amp) loads on big V6s, V8s and diesel 4WDs. At 4.5m long, they have that extra bit of length over your typical jumper leads, which always makes the difference when dealing with large 4WD engine bays. Fitted with a surge protector to protect sensitive electronics, and supplied in a handy clear plastic carry case. LEDs powered by built in batteries (included).

- Voltage surge protection
- 700A high current rating
- 8 x LR44 button batteries included
- 4.5m long



	Cat.	Qty 1+	Qty 3+	Qty 6+
700A 4.5m long	WH-6014	\$69.95	\$62.95	\$55.95

EVENT RECORDERS - DASH CAMS

EVENT RECORDERS COMPARISON GUIDE

A lot of the spectacular video seen on the TV News comes these days from devices called Event Recorders. They can be attached to the windscreen of your car, in a shop (acting as a security camera) or even in a bushland setting to record animal or intruder activity. They offer quality pictures & draw very little power. They can be movement triggered or not. They have really changed the way we live in the world, as you never know when you are being electronically observed these days. Jaycar has a great range of these products to suit every application and every budget.



Use our selection guide to help choose...

	LCD Screen Size	Video Resolution	Camera Resolution	Lens Angle	GPS Function	G Sensor	Motion Detection	Collision Warning	Page
QV-3852	1.5"	1080p	12MP	140°	-	✓	-	-	487
QV-3854	2.7"	1080p	12MP	140°	-	✓	-	-	487
QV-3850	3.0"	1080p	2MP	170°	✓	✓	✓	✓	488
QV-3860	4.3"	1080p	8MP	170°	-	✓	✓	✓	487
QV-3856	2.7"	1296p	16M	170°	✓	✓	✓	✓	488

1080p Car Event Recorder

A low cost car event recorder capable of recording in full HD. Record and watch in real time simultaneously. The camera records on to a microSD card (not included) and supports up to 32GB of capacity. Features G-Force sensor for automatic incident file separation recording, which is supported with a wide 140° camera angle. Powered by the supplied car cigarette adaptor which charges the built-in battery to keep the recording going if the power disconnects. Ideal for fleet vehicles, taxis and for those searching for assurance on the roads.

- Supplied with USB cable, car charger, windscreen mount and user manual.

Specifications	QV-3852
LCD	1.5" Colour
Lens	140° wide angle lens
Video Resolution	1080FHD 1920x1080 / 1080p 1440x1080 720p 1280x720 / WVGA 848x480
VGA	640x480 / QVGA 320x240
Video Format	AVI
Photo Format	JPEG
Photo Resolution	12M/10M/8M/5M/3M/2MHD/VGA/1.3M
Loop Cycle Recording	Off/1min/3min/5min/10min
Image Rotation	OFF/ON
Motion Detection	OFF/ON
Built-in Battery	Lithium battery 100mAh
Audio	Built-in microphone
Dimensions	67(L) x 43(W) x 32(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p 1.5" Display	QV-3852	\$79.95	\$71.95	\$63.95

1080p Car Event Recorder with 2.7" LCD Display

Catch all the detail in 1080p high definition resolution. This car event recorder features a high quality, 140° wide angle lens takes that captures events and displays them on a 2.7" high resolution LCD. Integrated G-shock sensor separates event files. The seamless loop-cycle recording feature means you will never miss an event! Supplied with USB cable, car charger, windscreen mount and user manual. microSD cards available separately. Supports microSD cards up to 32GB.

- Supports HDMI full HD video transmission.

Specifications	QV-3854
Sensor	5.0MP CMOS
LCD	2.7" Colour
Lens	140° wide angle lens
Video Resolution	1080FHD 1920x1080 / 1080p 1440x1080 720p 1280x720 / WVGA 848x480 VGA 640x480 / QVGA 320x240
ISO	Auto/100/200/400
Video Format	MOV (H.264)
Photo Format	JPEG
Photo Resolution	12M/10M/8M/5M/3M/2MHD/VGA/1.3M
Loop Cycle Recording	Off/1min/3min/5min/10min
Image Rotation	OFF/ON
Motion Detection	OFF/ON
Built-in Battery	Lithium battery 500mAh
Audio	Built-in microphone
Dimensions	114(L) x 47(W) x 33(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p 2.7" Display	QV-3854	\$139.00	\$124.95	\$110.95

1080p Car Event Recorder in Rear Vision Mirror

This unit is basically a wide-angle rear vision mirror which clips over your existing mirror. It features a cool blue anti-glare tint. Built into this unit is a full 1080p full HD event recording camera. It has IR night vision, motion detection recording (saves a separate recording if your car is hit), emergency file lock and more. Across the bottom of the unit are the control buttons. When you are ready to review the video, a 4.3" LCD screen is illuminated in the mirror area. The display only comes on when required and is therefore not a distraction when in normal driving mode. When activated, you can watch live real time view (which of course you can also do by looking through the windscreen!) or playback of recorded video.

This product is fantastic if someone tries to make a fraudulent claim on you. It can repay itself almost immediately in these situations.

- 1080 full HD recording
- IR illumination
- Includes power and USB leads
- Loop recording
- Time and date display
- Mirror dimensions: 315(W) x 85(H)mm

- Memory capacity expandable to 32GB (microSD card available separately)



	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p 4.3" Display	QV-3860	\$199.00	\$178.95	\$158.95

AUTO & OUTDOORS

EVENT RECORDERS & REVERSING CAMERA KITS

EVENT RECORDERS - DASH CAMS (CONTINUED)

1080p Dual Camera Car Event Recorder with GPS

Cover both front and rear view with this 1080p dual camera event DVR. The main front camera mounts on the dash or the windshield and is connected to the rear camera via a wiring loom. In addition to GPS, this unit is sensor packed and includes collision warning systems in all directions as well as head way monitoring and lane departure warning. Every movement is covered! Capture events and record to a microSD card in Full HD at 30 frames per second. Playback can be viewed on the 3" LCD. Supplied with a USB cable, cigarette lighter charging, windscreen mount and all wiring looms.

- LDWS (Lane Departure Warning System)
- FCWS (Front Collision Warning System)
- BCWS (Back Collision Warning System)
- FMWS (Front Moving Warning System)
- SCWS (Side Collision Warning System)
- HMWS (Headway Monitoring Warning System)
- Motion Detection
- Loop Recording
- GPS, G-sensor

INCLUDES 2 CAMERAS & GPS

Specifications	QV-3850
Sensor	3.0MP CMOS Sensor
LCD	3.0 inch TFT LCD(16:9) 960*240
Lens	170° ultra wide angle lens + 170° (Rear Camera) f=2.8mm; F/1.8
Video Resolution	Dual Channel 1920*1080p Full HD @30fps
Video Format	TS/H.264
Photo Format	JPEG / 2MP
Media Storage	microSD card support to 64GB
Interface	Support USB/HDMI/AV-IN
TV output	Composite: PAL/NTSC
Audio	Built in microphone/speaker
Dimensions	98(L) x 55(W) x 30(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Dash Cam with 3" Display & Dual Cameras	QV-3850	\$299.00	\$269.00	\$239.00

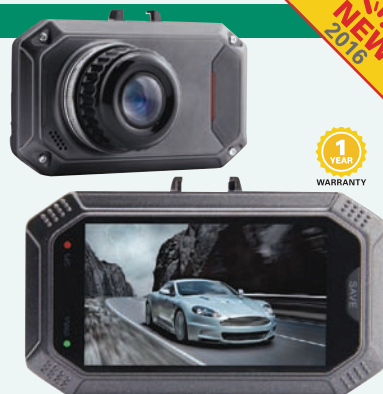
1296p Super HD Car Event Recorder with GPS

Our highest quality Car Event Recorder yet with 4.0M CMOS sensor delivering 30% more pixels than Full HD. Combined with an 170° view angle ultra-wide and F1.8 ultra-bright lens, this device captures every single detail of your journey clearly and smoothly, even at night! The superior image quality is also matched by the versatility of features. This device is equipped with GPS so speed, location and route of your trips can be pinpointed on Google Map via the supplied software. G-Sensor and motion detection comes standard to allow automatic recording. It even serves as a safety unit with the latest Lane Departure Warning System (LDWS) and Forward Collision Warning System (FCWS) to alert driver in dangerous situations. In fact, these warning systems are so effective in addressing driver errors, distraction and drowsiness that many countries are already considering making them mandatory.

Footages can be monitored or viewed on the 2.7" LCD screen, or on a larger screen via the mini HDMI port. High capacity microSD card up to the size of 64GB are supported, and loop recording function means you will never have to worry about running out of space.

Please note software is loaded onto the device. Updated software is available via our website

Specifications	QV-3856
Wide FHD	2560 x 1080p / 30fps
Super HD Resolution	2304 x 1296p / 30fps
FHD	1920 x 1080p / 60fps
Sensor	4.0M CMOS Sensor
Lens View Angle	170°
Lens Aperture Size	F 1.8
Photo Resolution	16M
GPS	Yes
G-Sensor	Yes
Motion Detection	Yes
Interface	USB/HDMI



	Cat.	Qty 1+	Qty 2+	Qty 4+
1296p Super HD Car Event Recorder with GPS	QV-3856	\$249.00	\$225.00	\$198.95

REVERSING CAMERAS COMPARISON GUIDE

Use our selection guide to help choose...

	QM-3797	QM-3852	QM-8046	QM-3856	QM-3742
LCD Screen Dia.	3.5"	4.3"	7"	4.3"	7"
Camera Type	Wireless	Wireless	Wireless	Wireless	Wired
Cameras Supplied	2	1	1	1	1
Camera Channels	2	2	4	1	2
Built-in IR LEDs	-	✓	✓	✓	✓
Power Input	12V	12/24V	12/24V	12/24V	12/24V
Page	488	489	489	489	490

WIRELESS REVERSING CAMERA KIT

2.4GHz Wireless Reversing Kit with Dual Cameras & LCD Monitor

Reversing cameras can be tricky to install, especially running video and other cables under the dash to the display unit. Like a GPS, the LCD on this unit plugs straight into your car's cigarette lighter socket and receives video via 2.4GHz wireless from the reversing camera.

Specifications	QM-3797
LCD	3.5"
Power	12VDC
Range	Up to 50m
Image Sensor	1/4" Colour CMOS
Effective pixels	320 x 240 pixels
Camera Resolution	640 x 480 pixels
Frequency	2414MHz, 2468MHz
Channel	V1/V2 switching
TV System	PAL/NTSC
Dimensions	110(W) x 77(H) x 22(D)mm

- Supplied with two cameras
- Camera can be mounted internally to fire through the rear window or externally on the number plate or bumper
- Transmission range is up to 50m



	Cat.	Qty 1+	Qty 2+	Qty 4+
2.4GHz Dual Reversing Camera & Display Kit	QM-3797	\$229.00	\$205.95	\$182.95

WIRELESS REVERSING CAMERA KITS (CONTINUED)

2.4GHz Digital Wireless Reversing Camera with 4.3" LCD

A robust, easy to install digital wireless reversing camera kit to give you a clearer view of your vehicles rear end. Since it is a wireless system it greatly minimises the need for cabling. The 4.3" LCD can be suction mounted to your windscreen and is directly powered from the cigarette lighter socket. The rear camera has a mounting plate with 3M[®] adhesive backing for hassle free and secure attachment to your vehicle. Since reversing at night is potentially the most dangerous, the camera has been fitted with 6 x IR LEDs which allow clear nightvision. A great solution for protecting your car and those behind you.

2.4GHz Digital Wireless Reversing Camera for QM-3852 sold separately

Specifications	QM-3852
Suitable	For 12VDC systems
LCD	4.3"
Power	8-30VDC
Range	Up to 50m
Frequency	2.4GHz
Sensor type	CMOS
Sensor size	1/4"
View angle	105°
Resolution	VGA 640 x 480
White balance	Auto
Frame rate	30fps
USB port	1.1 and above
SNRV	CMOS sensor 50dB
TV System	PAL/NTSC
Camera dimensions	84(W) x 42(H) x 36(D)mm
Monitor dimensions	140(W) x 87(H) x 21(D)mm



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2.4GHz Digital Reversing Camera	QM-3852	\$229.00	\$205.95	\$182.95
Spare Camera	QM-3854	\$109.00	\$97.95	\$86.95

2.4GHz Digital Wireless Reversing Camera with Event Recorder with 4.3" LCD

Similar to the QM-3852 above but also features a built in HD 1080p camera on the back of the viewing screen.

HD camera



Rear View

When mounted on the windscreen, the camera records traffic events in front of you. The adjustable camera also works as a distance warning system and features many other driving safety functions.



WARRANTY

Specifications	QM-3851
LCD	4.3"
Range	Up to 50m
Frequency	2.4GHz
Sensor type	CMOS
Sensor size	1/4"
View angle	105° (Rear), 120° front
Resolution	1920 x 1080
Camera dimensions	84(W) x 42(H) x 36(D)mm
Monitor dimensions	140(W) x 87(H) x 21(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Event Recorder	QM-3851	\$299.00	\$269.00	\$239.00

2.4GHz Digital Wireless Reversing Camera with 7" LCD Display

Utilising digital 2.4GHz wireless technology, this wireless reversing camera system offers up to 80m range with crystal clear picture quality and negligible video lag. Ideal for large vehicles with big blind spots such as trucks, buses, RV's, etc. The IP65 waterproof camera supplied comes fitted with IR LEDs for operation in low light conditions. Video is displayed on the slimline 7" LCD monitor, which has a quick latch bracket, so it can be easily removed and hidden away from prying eyes when not in use.

Additional cameras for system expansion are available - QM-8047.



QM-8047



WARRANTY

Specifications	QM-8046
LCD	7"
Power	12 - 24VDC
Range	up to 80m
Image Sensor	1/4" Colour CMOS
Effective pixels	640 x 480
Frequency	2.4GHz Digital
Channels	2
TV System	PAL
Dimensions	205(L) x 120(H) x 25(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Reversing Camera with 7" LCD Display	QM-8046	\$319.00	\$279.00	\$249.00
Wireless Infrared Camera	QM-8047	\$99.95	\$89.95	\$79.95

2.4GHz Digital Long Range Reversing Camera with 4.3" LCD

Confidently manoeuvre your heavy vehicle, and avoid unseen or unexpected obstacles when reversing with this wireless camera kit. The camera features a wide angle lens, infrared night vision, adjustable angle and is shaded for low glare. The 4.3" LCD colour display features 5x signal stabilisation and processing for high speed observation. Prior to travelling, securely affix the camera in place and plug the monitor into your vehicle's 12V auxiliary power outlet, then pair them to adjust the camera to the preferred angle. The waterproof housing of the camera ensures it will cope in the harshest weather conditions. If towing a large caravan or driving a b-double, you can pair multiple cameras to the monitor and switch between them to find the best angle. With a 150m range, even the longest vehicles are covered.

- Digital wireless technology
- 150m transmission range
- Infrared night vision for reversing in the dark
- Waterproof design

Specifications	QM-3856
LCD	4.3"
Voltage Input	12VDC-24VDC
Range	Up to 150m
Frequency	2.4GHz Digital
Dimensions	140(L) x 82(W) x 21(H)mm (LCD Screen)



WARRANTY

Note: Product will vary slightly from the one shown

	Cat.	Qty 1+	Qty 2+	Qty 4+
Reversing Camera	QM-3856	\$339.00	\$299.00	\$259.00
Spare Camera	QM-3857	\$139.00	\$124.95	\$110.95

AUTO & OUTDOORS

REVERSING CAMERA KITS & CAMERAS

WIRED REVERSING CAMERA KITS

Ultimate Rear-View System - Wired

This unit enables you to monitor the area to the rear of a bus, truck, caravan, RV etc, view a much wider field-of-view than any rear view mirror array and works in the dark with IR lighting. The system comes with a 7" (diagonal) LED display that has two video inputs, so you could (for example) have another camera monitoring, say bus passengers (camera extra). The rear vision camera is fitted with a SHARP (Japan) CCD device with 18 x IR LED's for night vision illumination.

The housing of the camera is metal, IP65 and has a gymbal bracket. It can be mounted externally. The kit is supplied with 10m of pre-terminated connecting cable. A remote control for the monitor is also provided. In keeping with the professional status of the product, it will work from 12 or 24VDC.

Dimensions:

- Monitor 178 x 120 x 28mm
- Camera 74 x 48 x 65mm

Specifications	QM-3742
LCD	7"
Power	12/24VDC
Range	Wired
Image Sensor	Sharp
Camera Resolution	420 TV Lines
Frequency	Wired
Channel	2
TV System	PAL/NTSC
Dimensions	178(L) x 120(H) x 28(D)mm



Product may vary slightly to one shown.



	Cat.	Qty 1+	Qty 2+	Qty 4+
Reversing Camera with 7" Display	QM-3742	\$249.00	\$225.00	\$198.95
10m Camera Extension Lead	QM-3743	\$14.95	\$13.45	\$11.95

REVERSING & SIDE CAMERAS

Flush Mount Mini Waterproof Camera for Cars or Trucks

Designed for use in vehicles to give drivers a clear view of car or truck blind spots. Reversing into tight spots, or parking in low light underground car parks is fraught with obstructions and potential accidents. Park your car with ease and avoid costly repair bills. Installation is very simple with the supplied 6m length wiring loom and hole saw drill bit.

Specifications	QC-3530
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0 Lux
IP Rating	IP67
Video out	1Vp.p. 75 ohm
Power Supply	9-12VDC
Operating temperature	-20 - +75°C, RH95 max.
Dimensions:	18.5(Dia.)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CMOS	QC-3530	\$49.95	\$44.90	\$39.90

Flush Mount CCD Rear Vision Camera

Utilising a CCD sensor for better image quality and low light performance. This waterproof IP67 reversing camera will provide clear video stream to avoid any potential accidents when reversing. It is designed to mount flush on even surfaces. Supplied with a 6m wiring loom and a size specific hole saw drill bit for that clean and professional installation.

Specifications	QC-3534
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video out	1Vp.p. 75 ohm
Power Supply	9-12VDC
Operating temperature	-20 - +70°C, RH95 max.
Dimensions	26(Dia.)mm including bezel



	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC-3534	\$119.00	\$106.95	\$94.95

Colour CCD Wide Angle Waterproof Rear View Camera

A camera designed to assist drivers reversing their vehicles. The tiny camera is easily mounted with the attached mounting bracket and screws. Ideally it should be fixed to an area above your rear licence plate, or any area other suitable nearby area. The wide angle lens and minimum illumination of 0.5 Lux will give you a more than adequate view of potential hazards behind your vehicle. Supplied with a 6m wiring and video loom cable.

Specifications	QC-3532
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video out	1Vp.p. 75 ohm
Power Supply	8-12VDC
Operating temperature	-20 - +75°C, RH95 max.
Dimensions	22(W) x 15(Dia.)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC-3532	\$49.95	\$44.90	\$39.90

Surface Mount Side View / Front View Camera

A popular reversing camera solution that securely mounts on your vehicle via a threaded stalk. No need to drill massive holes on your vehicles panels. Fog and shock resistant, it also features a 170° wide angle lens.

Supplied with Screws and 3M® glue for simplified installation. Incorporates, a 600mm power lead and a 6m wiring and video loom.

Specifications	QC-3538
Sensor	PC7070
Resolution	420 TV lines
View Angle	170°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video out	1Vp.p. 75 ohm
Power Supply	9-12VDC
Operating temperature	-20 - +75°C, RH95 max.



	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL	QC-3538	\$119.00	\$106.95	\$94.95

Bus / Truck Camera with Infrared LEDs - CCD

The camera housing is constructed using Tough aluminium alloy and equipped with a black metal shield which helps deflect sun glare, rain and Dust. It is shock and vibration resistant and fitted with Infrared LEDs for night illumination.

It is IP67 rated and suitable for heavy duty applications such as trucks, buses, RV's and caravans.

Specifications	QC-3536
Sensor	Sharp 1/4 CCD
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video out	1Vp.p. 75 ohm
Power Supply	12VDC
Operating temperature	-20 - +70°C, RH95 max.



	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC-3536	\$119.00	\$106.95	\$94.95

IN-CAR POWER

12V to 5VDC Power Converter

Use this wiring kit to get rid of those unsightly and annoying power cables floating around your car dash that power your GPS, Dash cam or mobile device. Simply hardwire it to the 12V power fuse panel in your vehicle and plug the micro USB plug (micro USB adaptor also included) into the device you need to power. If your vehicle uses blade fuses then wiring can be made easier using our SF-5115 or SF-5125 blade fuse sockets, which patch into the fuse panel.

- Micro USB Plug (Mini USB adaptor included)
- 2.5A continuous current
- Cable length 1.3m



	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3675	\$19.95	\$17.95	\$15.95

MONITORS

7" TFT LCD Widescreen Colour Monitor with IR Remote

This 7" TFT Widescreen LCD Monitor delivers high resolution pictures in widescreen format and clear sound reproduction through its inbuilt speaker. It is extremely lightweight and is suitable for all sorts of mobile and fixed monitoring applications. Suitable for in-car and home entertainment, use it to watch DVDs, PS2®, XBOX®, etc. can be used for monitoring or surveillance purposes.

Two RCA composite video inputs and one audio input are provided for a multi source system. This is truly a versatile monitor, it has low power consumption, wide viewing angle, and is NTSC and PAL compatible.

It is equipped with On Screen Display enabling the user to easily control the colour, contrast, hue, brightness, and volume. A very slim and small infrared remote control is included. It has reverse image capability adjustable by pressing a button. The mirror-image function on this unit makes it ideal for buses with a camera to view behind while reversing.

Unit comes with an adjustable swivel bracket with double sided tape for adhesion on clean flat surfaces. A 4 pin mini din to 2 RCA and power cable is also supplied.

Specification	QM-3752
System	NTSC/PAL
Power Input	12-24VDC
Power Consumption	10W
Screen Size	7inch (diagonal width)
Display Method	TFT Active Matrix System
Resolution	1140(h) x 234(v)



*Works with most, but not all widescreen sources.
Will default to modified widescreen in some cases.

NEW & IMPROVED!

Ideal for trucks

Wireless Stereo Headphones for QM-3752

Add a pair of wireless headphones and enjoy automotive bliss. Soft cushioned earpads for comfort, switchable between channel A and B.

Specifications	AA-2047
Driver diameter	27mm
Nominal impedance	32 ohms
Frequency response	120Hz - 20kHz
Sensitivity	100dB



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
7" Colour Monitor	QM-3752	\$119.00	\$106.95	\$94.95
Wireless Headphones to suit QM-3752	AA-2047	\$39.95	\$35.90	\$31.90

9" High Resolution Auto LCD Monitor with HDMI Input - 12/24V

Ideal for the car or truck this 9" display monitor supplied with anti-glare shield to improve visibility during daylight. It incorporates composite RCA and HDMI inputs making it an ideal monitor solution for security, reversing or multimedia entertainment. Supplied with power cable and user manual.

Specifications	QM-3874
Screen Size	9"
Screen Ratio	16:9
Resolution	RGB 800 x 480
Backlight	LED, 250cd/m2
Contrast	500/1
View Angle	UP 50°, Down 70°, Left 70°, Right 70°
System	NTSC & PAL (Auto switch)
OSD Control	Brightness, Contrast, Colour, Volume
Power	12-24VDC, 7W
AV input	2 way video input, 2 way audio input
HDMI Input	1 x HDMI input (including audio)
Dimensions	240(W) x 163(H) x 26(D)mm



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
9" Colour Monitor with HDMI	QM-3874	\$219.00	\$196.95	\$174.95

9" LCD Monitor with 4 Channel DVR - 12/24V

Connect up to 4 cameras and record all 4 channels with this 12/24V mobile DVR. Incorporates a large 9" colour display in a tough metal chassis with sunshade. It adopts industry standard 4G shockproof technology to ensure clear continuous video recording onto an SD card (available separately) while on the move.

It's ideal for truck, bus, caravans and other heavy duty mobile installation.

- Supplied with power cable, remote control and user manual.

Specifications	QM-3872
Screen Size	9"
Screen Ratio	16:9
Resolution	800 x 480
Backlight	LED, 300cd/m²
Image Rotation	UP/Down and Left/Right
View Angle	UP 50°, Down 70°, Left 70°, Right 70°
Display	1,2,4 channel
System	NTSC & PAL (Auto switch)
Recording	4 Ch 640 x 480 at 60fps
Storage	SD, up to 32GB
Storage Format	AVI
OSD Control	Brightness, Contrast, Colour, Volume
Power	12-24VDC, 8W
AV input	4 Video inputs, 1 audio input
Dimensions	240(W) x 163(H) x 26(D)mm



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
9" Colour Monitor with 4 Channel DVR	QM-3872	\$309.00	\$269.00	\$239.00

DRIVING LIGHTS COMPARISON GUIDE - ROUND & SQUARE

Use our selection guide to help choose...

	Lumens	Beam	Beam Distance	Design	Size	Current Draw 12VDC	Current Draw 24VDC	Page
SL-3915	500	Flood	50m	Round	1.5"	0.3A	0.15A	492
SL-3916	500	Spot	145m	Round	1.5"	0.3A	0.15A	492
SL-3938	720	Flood	42m	Square	2"	0.6A	0.3A	492
SL-3939	720	Spot	98m	Square	2"	0.6A	0.3A	492
SL-3934	1450	Spot	230m	Round	4.5"	2.1A	1A	492
SL-3936	1450	Flood	125m	Round	4.5"	2.1A	1A	492
SL-3930	1733	Spot	490m	Round	3.5"	2A	1A	493
SL-3932	1733	Flood	178m	Round	3.5"	2A	1A	493
SL-3918	3486	Flood	183m	Round	4.5"	2.4A	1.2A	493
SL-3919	3486	Spot	378m	Round	4.5"	2.4A	1.2A	493
SL-3920	6300	Flood/Spot	523m	Round	6.5"	6.6A	3.3A	494
SL-3921	6300	Spot	648m	Round	6.5"	6.6A	3.3A	494
SL-3922	6300	Flood	210m	Round	6.5"	6.6A	3.3A	494
SL-3990	10140	Flood/Spot	980m	Round	8"	6.6A	3.3A	494
SL-3992	10140	Spot	1150m	Round	8"	6.6A	3.3A	494

EXTERNAL LIGHTS & SPOTLIGHTS



500 Lumen IP68 Solid Mini LED Spot / Floodlights

Amazingly bright, completely shock and waterproof, and unbelievably compact LED spot/floodlights that are an all-round solution for so many different applications. Use them as reversing lights or side lights on your 4WD, permanently mount them on your tinny as night fishing lights or nav lights, use them for deck lighting - we're sure you get the idea! Made from die cast aluminium alloy with an anodised polyester powder coat, 316 grade stainless steel hardware, a near unbreakable lexan polycarbonate lens, and featuring an IP68 rating and UV shielding, they are more than capable of handling whatever situation you throw them into. Operated from 10-36VDC, and available in either spot or flood beam patterns. For off-road use only.

- IP68 waterproof
- Shock proof
- 50,000 hour life
- Instant ON/OFF

Sold Individually



Specifications	SL-3915/SL-3916
Beam pattern	Flood (SL-3915), Spot (SL-3916)
Beam distance	Flood 50m, Spot 145m
Lumen output	500
Equivalent halogen lamp	35W
Input current	0.3A (12VDC), 0.16A (24VDC)
Operating temp	-40°C - 60°C
Dimensions (mounted)	70(H) x 40(W) x 55(D)mm

Type	Cat.	Qty 1+	Qty 2+	Qty 6+
Floodlight	SL-3915	\$54.95	\$49.45	\$43.90
Spotlight	SL-3916	\$54.95	\$49.45	\$43.90

720 Lumen LED Spot / Floodlights with Cree® LED

A cost effective waterproof, dustproof and shockproof lights suited to the rough demands of 4WD or marine lighting applications. The low profile design and provided mounting clips allow you to make a group of these lights mounted as a straight light bar or stacked on each other to create a light panel. For off-road use only.

- Housing: Durable alloy diecast

Sold As A Pair

Stackable



Side view

Specifications	SL-3939/SL-3938
LED Life	Over 50,000 hours
Waterproof	IP67
Current draw	12V (0.6A), 24V (0.3A)
Voltage	9 - 60V (10W)
Lumens	720
Colour Temperature	6000K
Termination	Fly Leads
Dimensions	51(W) x 51(H) x 61(D)mm



Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Spotlight	SL-3939	\$89.95	\$80.95	\$71.95
Floodlight	SL-3938	\$89.95	\$80.95	\$71.95

1,450 Lumen LED Spot / Floodlights - Waterproof

Extremely bright waterproof LED spot and floodlights ideal for 4WD use. Each light features 9 x 3W Epistar LEDs that will blast out 1450 Lumens of white light onto the road and into the bush so isolated or remote areas are well lit. Feature die cast aluminium alloy housing with tough polycarbonate lens refractors that will protect the light from small stones. For off-road use only.

The LEDs will last for up to 50,000 hours which far exceeds that of regular halogen lights - No more blown globes! Mounting brackets included.

Sold As A Pair



Side view

Specifications	SL-3934/SL-3936
Beam distance	Spot: 230m, Flood: 125m
Waterproof	IP68
Current draw	12V (2.1A), 24V (1.1A)
Lumens	1450



Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Spotlights	SL-3934	\$129.00	\$115.95	\$102.95
Floodlights	SL-3936	\$129.00	\$115.95	\$102.95

EXTERNAL LIGHTS & SPOTLIGHTS (CONTINUED)



SL-3930

SL-3932



SL-3918

SL-3919

1,733 Lumen Compact Solid LED Spot/Floodlight with Deep Optic Reflector

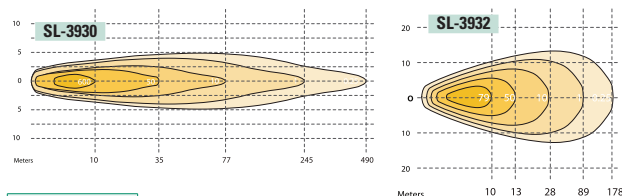
Super tough and compact LED spot/floodlights which can be bolted onto your 4WD, boat, car, off-road buggy or even for security use. Features a die cast aluminium alloy heatsink housing with an unbreakable polycarbonate front cover. Thanks to the deep optic reflector lens, the beam length on these lights is incredible for the lumen output. The spot light model can almost reach half a kilometre! Inside each model is a single next-generation 25W Cree MT-G LED, driven by high end PWM driver circuitry that protects the LED from over temperature and extends the operating life. Includes reverse polarity protection in case you make a junior error when wiring up! For off-road use only.

Two versions available - Sold individually:

Spotlight: SL-3930
Floodlight: SL-3932

- IP68 waterproof
- Shock proof
- 50,000 hour life
- Instant ON/OFF

Side view



Sold Individually

Specifications	Both
Beam pattern	Flood (SL-3932), Spot (SL-3930)
Beam distance	Flood (178m), Spot (490m)
Lumen output	1733
Equivalent halogen lamp	200W
Operating voltage	9-36VDC
Input current:	2.0A (12VDC), 1.1A (24VDC)
Operating temperature	-40°C to + 60°C
Dimensions	86(W) x 100(H) x 93(D)mm



WARRANTY

↑	Type		Lumens	Cat.	Qty 1 +	Qty 2 +	Qty 6 +
	Spotlight	Each	1,733	SL-3930	\$149.00	\$133.95	\$118.95
	Floodlight	Each	1,733	SL-3932	\$149.00	\$133.95	\$118.95

Universal Bullbar Mounting Brackets

These brackets are designed to mount driving lights, spotlights, UHF antenna's and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented.

Ideal for use with our range of 12VDC LED lights SL-3914, SL-3912, SL-3916, SL-3918, SL-3920 and SL-3922.

3 sizes available to fit various diameter frames:



SL-3925

SL-3927

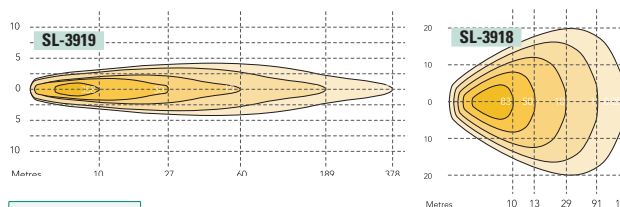
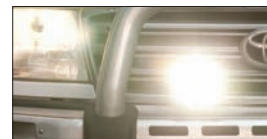
SL-3929

⤴	Diameter		Cat.	Qty 1 +	Qty 2 +	Qty 6 +
	25-38mm	Bullbar Mount	SL-3925	\$14.95	\$13.35	\$11.70
	40-52mm	Bullbar Mount	SL-3927	\$14.95	\$13.35	\$11.70
	70-80mm	Bullbar Mount	SL-3929	\$19.95	\$17.70	\$15.70

3,486 Lumen 4.5" IP68 Solid LED Spot/Floodlights

Why would you ever buy halogen or HID spotlights again? These LED lights output over 3400 lumens of brilliant white light - that's more light than a 300W halogen! They are also completely shockproof, waterproof (IP68), rust proof, shatterproof, last for 50,000 hours, draw a measly 34W, turn on instantly, have a beam throw of up to 378m (for spotlight, flood = 183m), work off 12VDC or 24VDC, and can handle pretty extreme temperatures without fuss. A must have for any serious 4WD bull bar or roll bar, or for any other application where extreme ruggedness and blinding brightness are desired. Available in either spot or flood beam patterns, and fitted with marine grade 316 stainless steel fasteners. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- Equivalent light to a 300W halogen



Sold Individually

Specifications	SL-3918 / SL-3919
Beam pattern	Flood (SL-3918), Spot (SL-3919)
Beam distance	Flood 183m, Spot 378m
Lumen output	3486
Equivalent halogen lamp	300W
Input current	2.4A (12VDC), 1.2A (24VDC)
Operating temp	-40°C - 60°C
Dimensions (mounted)	120(Dia.) x 82(D)mm (excluding bracket)



WARRANTY

↑	Type	Lumens	Cat.	Qty 1 +	Qty 2 +	Qty 6 +	
	Floodlight	Each	3,486	SL-3918	\$149.00	\$133.95	\$118.95
	Spotlight	Each	3,486	SL-3919	\$149.00	\$133.95	\$118.95
	White Spotlight Cover	NEW	SL-3963	\$10.95	\$9.85	\$8.75	
	Clear Spotlight Cover	NEW	SL-3964	\$10.95	\$9.85	\$8.75	

Spotlight Covers

Keep your LED spotlights covered and protected when not in use or change the light to blue or amber for various driving and weather conducting fog.

Pack includes one each of:

- Clear blue
- Clear amber
- Solid white



Because the LED lamps run cooler, you can run the lights with the covers on. Great for foggy/misty conditions. (A quartz lamp would melt the cover!)

Spotlight Cover	Cat.	Qty 1+	Qty 2+	Qty 6+
To suit SL-3918 & SL-3919	SL-3917	\$24.95	\$22.50	\$19.95
To suit SL-3920, SL-3921 & SL-3922	SL-3923	\$29.95	\$26.95	\$23.70

AUTO & OUTDOORS LED DRIVING & FLOOD LIGHTS

EXTERNAL LIGHTS & SPOTLIGHTS (CONTINUED)



6,300 Lumen IP68 6.5" Solid LED Driving/Spot/Floodlights

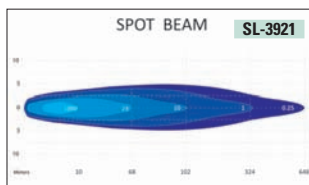
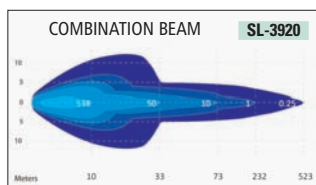
With a pair of these fitted to the front of your vehicle, you have the equivalent of over 1000W of halogen light (or over 12,000 lumens in the new speak). They are built tough as nails as well - with an IP68 water and dust proof rating, powder-coated diecast aluminium main body, unbreakable polycarbonate lens, marine grade stainless steel fasteners, and high grade electronic circuitry to protect the 7 Cree® XM-L LEDs and drive them at maximum efficiency. You would be hard pressed to find a better LED light at a better price. Each unit supplied with a 2m wire harness with waterproof connector, and 2 bracket options to suit different applications. For off-road use only.

- IP68 waterproof / Shockproof
- 50,000 hour life
- High quality LED driver electronics
- Equivalent light to 500W halogen

Three versions available:

SL-3920 6,300 Lumen 6.5" Solid LED Driving Light
SL-3921 6,300 Lumen 6.5" Solid LED Spotlight
SL-3922 6,300 Lumen 6.5" Solid LED Floodlight

Sold Individually



Specifications	SL-3920/SL-3921/SL-3922
Beam pattern	SL-3920: driving (flood/spot), SL-3921: spot, SL-3922: flood
Beam distance	SL-3920: 523m, SL-3921: 648m, SL-3922: 210m
Lumen output	6,300
LED type	7 x 10W Cree® XM-L
Equivalent halogen lamp	>500W
Input voltage	9-36VDC
Input current	6.6A(12VDC), 2.64A(24VDC)
Operating temp.	-40°C - 60°C
Dimensions	160(Dia.) x 90(D)mm (excluding bracket)

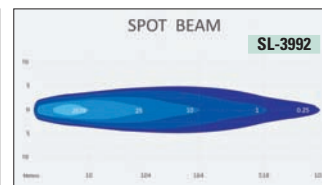
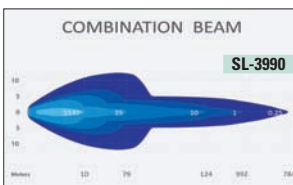
↑	Type	Lumens	Cat.	Qty 1+	Qty 2+	Qty 6+
	Driving Light Each	6,300	SL-3920	\$249.00	\$225.00	\$198.95
	Spotlight Each	6,300	SL-3921	\$249.00	\$225.00	\$198.95
	Floodlight Each	6,300	SL-3922	\$249.00	\$225.00	\$198.95
	White Spotlight Cover	NEW	SL-3965	\$12.95	\$11.35	\$10.35
	Clear Spotlight Cover	NEW	SL-3966	\$12.95	\$11.35	\$10.35

10,140 Lumen Extreme 8" LED Driving/Spotlights

Whether you're a serious 4WD off-roader, long haul truckie, or just want to be king of the "spotlight game", these 8" LED driving lights are ultimate choice for lighting up the road. With each light generating over 10,000 lumens of brilliant, cool white light, you will be illuminating well over 1km of the road ahead with a pair fitted to your rig. The main body is constructed with die cast aluminium alloy (ADC12) to act as a heat sink for the LEDs, with anodized polyester black powdercoat for a tough and durable finish. For final protection the front lens cover is made of unbreakable Lexan polycarbonate to defend against the odd rock, tree branch or roof. Of course, being LED you get all the other benefits such as complete shock and vibration resistance (a must on bumpy outback roads), 50,000 hour life expectancy and instant ON/OFF operation. And of course, the whole unit is completely dust and waterproof to IP68 with a Gore-Tex® breather to avoid internal condensation. Sold individually. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- High quality LED electronics
- Thermal management circuitry

Sold Individually



Specifications	Both
Beam pattern	SL-3990 driving (spot/flood), SL-3992 spot
Beam distance	SL-3990 980m, SL-3992 1150m
Lumen output	10,140
LED type	13 x 10W Cree® XM-L
Equivalent Halogen	>750W
Input voltage	9-36VDC
Input current	11A (12VDC), 5A (24VDC)
Operating temp	-40°C - 60°C
Dimensions	200(dia.)mm

↑	Type	Lumens	Cat.	Qty 1+	Qty 2+	Qty 6+
	Driving Light Each	10,140	SL-3990	\$379.00	\$339.00	\$299.00
	Spotlight Each	10,140	SL-3992	\$379.00	\$339.00	\$299.00
	White Spotlight Cover	NEW	SL-3967	\$13.95	\$12.35	\$10.95
	Clear Spotlight Cover	NEW	SL-3968	\$13.95	\$12.35	\$10.95

THE REVOLUTION IN VEHICLE NIGHT ILLUMINATION

The light-emitting diode has, in the last few years made a profound effect in all areas of electric illumination. One of the last bastions of incandescent technology has been the 12V Halogen filled Quartz bulb. The extremely high temperature of the rugged tungsten filament has been hard to beat. But they always had problems. They drew massive amounts of current. It was not uncommon for poorly designed car wiring to melt or catch fire. You had to have substantial and expensive cabling, switches, relays and circuit breakers. The globes themselves had limited lifetimes. Revolutionary LED technology has completely obliterated Quartz-Iodine illumination. On the chart on page 495 and in detail on the following pages you will find far, far superior driving light products. Not only will the LEDs last upwards of 50,000 hours, because they are completely solid (remember the term solid-state? That's them) and do not have a filament, they will not shake to pieces on dirt roads.

Oh, and we nearly forgot, they only draw a modest amount of current (meaning cheaper wiring) and they are far, far brighter than halogen lamps on the same class.



DRIVING LIGHTS COMPARISON GUIDE - BAR STYLE

Use our selection guide to help choose...

	Lumens	Beam	Beam Distance	Design	Size	Current Draw 12VDC	Current Draw 24VDC	Page
SL-3975	2,250	Flood	92m	Bar	5.5"	1.56A	0.78A	496
SL-3970	3,400	Spot	474m	Bar	12"	4.5A	2.25A	496
SL-3985	7,200	Flood/Spot	574m	Bar	13"	6.9A	3.45A	495
SL-3982	8,400	Flood/Spot	755m	Bar	21.5"	6.8A	3.4A	496
SL-3986	14,400	Flood/Spot	912m	Bar	24"	13.2A	6.6A	495
SL-3987	14,400	Spot	1100m	Bar	24"	13.2A	6.6A	495
SL-3984	16,800	Flood/Spot	1163m	Bar	41.5"	14.9A	7.45A	496
SL-3988	21,600	Flood/Spot	1080m	Bar	35.6"	20A	10A	495
SL-3989	21,600	Spot	1370m	Bar	35.6"	20A	10A	495

Solid LED Single Row Driving / Spotlight Bars

Light up the road ahead or the campsite with these impressive lights. The single row design provides a much lower profile compared to dual row, and are much more efficient. Built from powder coated die-cast aircraft grade aluminium with a polycarbonate front cover and Gore-Tex breather, they are not only shock and vibration resistant but IP68 waterproof as well. Fitted with 316 grade stainless hardware. Choose between combination beam (flood and spot) to provide great optimal light performance near and far, or spot beam pattern design for an impressive beam distance of 1100m. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000hr life Cree® XM-L LEDs
- High quality PWM thermal management electronics
- UV Shielded
- Input voltage: 9-36VDC
- Operating temp: -40°C to +60°C

Five versions available:

Specifications	SL-3985	SL-3986	SL-3987	SL-3988	SL-3989
Beam distance	574m - Combination Beam	912m - Combination Beam	1,100m - Spot Beam	1,080m - Combination Beam	1,370m - Spot Beam
Lumen Output	7,200	14,400	14,400	21,600	21,600
LEDs	8 x 10W Cree®	16 x 10W Cree®	16 x 10W Cree®	24 x 10W Cree®	24 x 10W Cree®
Power	80 Watts	160 Watts	160 Watts	240 Watts	240 Watts
Input current	6.9A(12VDC), 2.8A(24VDC)	13.2A(12VDC), 6.1A(24VDC)	13.2A(12VDC), 6.1A(24VDC)	20A(12VDC), 9.8A(24VDC)	20A(12VDC), 9.8A(24VDC)
Dimensions	330(W) x 50(H) x 82(D)mm, without brackets	610(W) x 50(H) x 82(D)mm, without brackets	610(W) x 50(H) x 82(D)mm, without brackets	889(W) x 50(H) x 82(D)mm, without brackets	889(W) x 50(H) x 82(D)mm, without brackets

Length	Lumens	Beam	Cat.	Qty 1+	Qty 2+	Qty 6+
13"	7,200	Combination Beam	SL-3985	\$229.00	\$209.00	\$182.95
24"	14,400	Combination Beam	SL-3986	\$399.00	\$359.00	\$319.00
24"	14,400	Spot Beam	SL-3987	\$399.00	\$359.00	\$319.00
35.6"	21,600	Combination Beam	SL-3988 NEW	\$599.00	\$539.00	\$479.00
35.6"	21,600	Spot Beam	SL-3989 NEW	\$599.00	\$539.00	\$479.00



NEW
2016

1
YEAR
WARRANTY

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WH-5525



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P205

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P208

FROM
\$64.95
AA-0442



AMPLIFIER WIRING KIT

P505

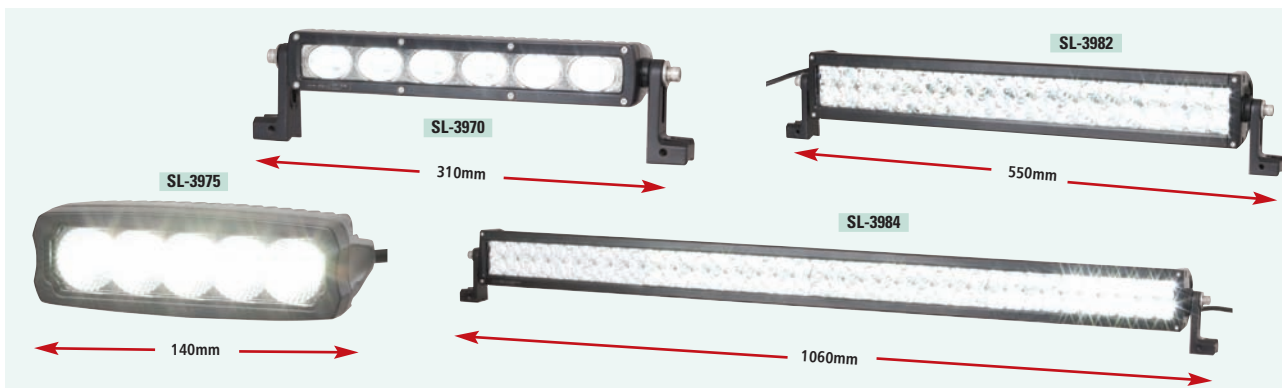
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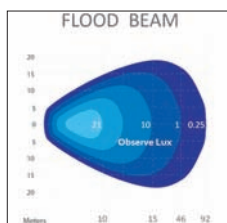
EXTERNAL LIGHTS & SPOTLIGHTS (CONTINUED)



2,250 Lumen 25W Single Row LED Vehicle Worklight

Just hook it up to your 12V or 24V battery system and light up your work area, campsite, boat deck or any other outdoor area. This single row LED work light features 5 x high power Epistar 5W LEDs housed in an IP67 rated powder coated aluminium heatsink case, covered with an unbreakable Lexan polycarbonate lens. Being LEDs, they use very little power to produce ample light, and are impervious to shock and vibrations - excellent in 4WD, marine, caravan, mining, or any other harsh environment application. For off-road use only.

- Flood beam output.



Specifications	SL-3975
Beam pattern	Flood
Beam distance	92m
Lumen output	2,250
Equivalent halogen	175W
Input current	1.56A (12VDC), 0.80A (24VDC)
Operating temp	-40°C - 60°C
Dimensions	140(L) x 45(H) x 71(D)mm

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Flood	SL-3975	\$79.95	\$71.95	\$63.95

TECH TALK!

HOW TO WIRE UP 4WD SPOTLIGHTS/ DRIVING LIGHTS

Fitting spotlights or driving lights to your 4WD, ute or other vehicle is generally pretty simple when you use a relay wiring kit like our SY-4079 on page 509, but it pays to wire it correctly to avoid any hassles with the law.

Most states follow the requirements of the Australian Design Rules (ADRs), which requires that they be wired so that they only operate in conjunction with the head light circuit and are fitted with an independent ON/OFF switch - however some states require them to only operate in conjunction with the HIGH beam circuit and with an independent switch. Check with your local transport authorities for rules in your area.



Workbench sent to us by: Phillip Jaycar Store: Ringwood

Part of my toolbox: 'test & measurement' drawer, with a couple of my old favorites: QM-1538 data logging DMMs.

And my QM-7222 Digital IR Thermometer

For more details, visit:
www.jaycar.com.au/workbench

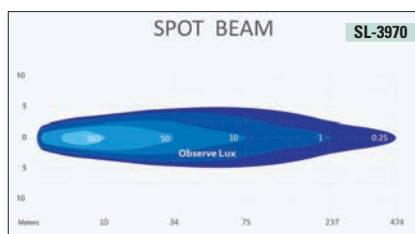
5,400 Lumen IP68 12" Single Row Solid LED Light Bars

This fantastic high power single row LED light bar uses six 10W Cree® XM-L LEDs to produce a whopping 5,400 lumens - equivalent to a 400W halogen. With an overall length of 12" (310mm), they are a very compact solution for lighting up the road without dominating the front of your 4WD. If you need more light, or want to combine a spot and a flood beam, then you can use the supplied brackets & joiners to either mount them in line (side by side) or stacked on top of each other. Built from powder coated die-cast aircraft grade aluminium with a Lexan polycarbonate front cover and Gore-Tex breather, they are not only shock and vibration resistant but IP68 waterproof as well. Fitted with 316 grade stainless hardware. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- High quality PWM thermal management electronics
- Equivalent to 400W halogen



Sold Individually



Specifications	SL-3970
Beam pattern	Spot
Beam distance	474m
Lumen output	5,400
LED type	6x Cree® XM-L
Equivalent halogen lamp	> 400W
Input voltage	9-36VDC
Input current	4.5A (12VDC), 2.3A (24VDC)
Operating temp	-40°C to 60°C
Dimensions	310(W) x 50(H) x 82(D)mm, without brackets

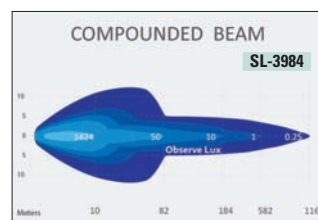
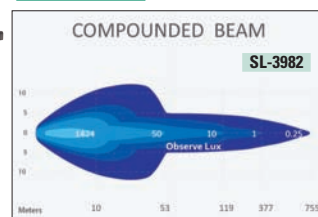
Type	Cat.	Qty 1+
Spotlight	SL-3970	\$199.00

8,400 & 16,800 Lumen IP68 Dual Row Solid Spot/Flood Light Bars

More and more serious 4WD enthusiasts are opting for an LED light bar instead of the traditional "spotties" for auxiliary lighting. In most cases, an LED light bar will give more light output than a pair (or even 2 pairs) of halogen or HID spotties, and are far less obtrusive on the front of the vehicle. These dual row LED light bars feature high quality Osram LEDs with extremely optically efficient lenses, to ensure the maximum light is collected from the LEDs and driven forward for maximum beam distance. Built with powder coated aircraft grade 6063 extruded aluminium, with unbreakable Lexan polycarbonate front lens and Gore-Tex breather to achieve the IP68 waterproof rating - they are very tough. Fitted with combination spot & flood "driving" beam, and features 316 grade stainless hardware. Available in 20" (SL-3982) and 40" (SL-3984) sizes. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- High quality PWM thermal management electronics

Sold Individually



Specifications	SL-3982	SL-3984
Beam pattern	Combination flood & spot	Combination flood & spot
Beam distance	755m	1163m
Lumen output	8,400	16,800
LED type	40x Osram	80x Osram
Equivalent halogen lamp	> 600W	> 1200W
Input voltage	9-36VDC	9-36VDC
Input current	6.8A (12VDC), 3.95A (24VDC)	14.9A (12VDC), 6A (24VDC)
Operating temp	-40°C - 60°C	-40°C - 60°C
Dimensions	550(W) x 82(H) x 89(D)mm, without brackets	1060(W) x 82(H) x 89(D)mm, without brackets

Type	Cat.	Qty 1+
Combo	SL-3982	\$499.00
Combo	SL-3984	\$699.00

CAR LIGHTING - HEADLIGHT

Discrete 10 LED Daytime Running Lamp Kit



Attractive and subtle daytime running lights to add a touch of class to your car or truck, and make your car more visible on the road during the day for safety. Designed to be installed flush with your vehicle's body, they will connect to the control module which intelligently switches the lights on when the engine is started. The ten discrete LEDs gives you the flexibility to install them as desired. Supplied with an appropriate size hole saw for fast and easy installation.

Specifications	SL-3457
Operating voltage	12-24VDC
LED lifetime	> 50,000 hours
Dust and Waterproof	Yes
LED Colour Temperature	5500-6500K
Lumens	70 Lumens
Cutout hole required	19.5mm
Dimensions	23(Dia.) x 24(L)mm

↑ Voltage	Type	Cat.	Qty 1+
12V	H3	SL-3457	\$79.95

CAR LIGHTING - EXTERIOR

Warning: State roads & traffic authorities prohibit the retrofitting of these products to cars with normal headlights. To be used only for off-road and showroom vehicles when replacing quartz halogen bulbs, or as headlight replacements for HID factory-fitted new model vehicles

Slim Ballast Xenon HID Light Kits

HID provides far greater light output than standard automotive lights. At night, road signs, pedestrians, and general road hazards will receive much better illumination so you can drive with more confidence. This series of kits all feature a slim ballast design for ease of installation in engine bays and tight spaces.

- Ballast dimensions: 85(L) x 61(W) x 15(H)mm
- Lifespan: > 2500 hours
- 300% more light than halogen
- HID 92 Lumens per watt compared to 18 Lumens per watt for a halogen

H1 Slim Ballast HID Kit 12V 6000K	SL-3490
H3 Slim Ballast HID Kit 12V 6000K	SL-3492
H4 Slim Ballast HID Kit 12V 6000K	SL-3494
H4 Slim Ballast HID High/Low Kit 12V 6000K	SL-3495
H7 Slim Ballast HID Kit 12V 6000K	SL-3496

Note: Please ensure your lights are angled correctly
These lights are not ADR approved

↑ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H1	SL-3490	\$64.95	\$58.50	\$51.95
12V	H3	SL-3492	\$49.95		
12V	H4	SL-3494	\$49.95		
12V	H4 High + Low	SL-3495	\$84.95	\$76.45	\$67.95
12V	H7	SL-3496	\$59.95	\$53.95	\$47.90

HID Single Beam Bulbs - 35W

Drop-in replacements HID bulbs.
H3, H4 and H7 types available.

Specifications	Both
Power	35W
Lumination	2500 - 3,500 lumens
Lifespan	3000 hours
Colour temperature	3000 - 6000K
Voltage	70 - 100V



↑ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H3	SL-3411	\$14.95	\$13.35	\$11.70
12V	H4	SL-3412	\$14.95	\$13.35	\$11.70

Replacement Bulbs + Ballast

Used in the latest model luxury and high performance cars, High Intensity Discharge (HID) vehicle headlights are far brighter, whiter and more efficient than their quartz halogen predecessors. These HID dual lamp conversion kits are suitable for H4 bases and incorporate the latest in German engineering.

- 35W HID Xenon lamps
- 6000K colour temperature comparable to sunlight
- Extra bright 3200 lumens



↑	Cat.	Qty 1+	Qty 5+	Qty 10+
Replacement High/Low HID Bulb	SL-3414	\$24.95	\$22.35	\$19.70
Replacement Ballast for HID Kits	SL-3418	\$24.95	\$22.35	\$19.70

Headlamp Kits with Cree® LEDs

Bright vehicle headlamps with advanced Cree® LEDs. Each kit comes in an alloy bodied case and connects via the supplied ballasts. Each kit contains 2 x LED modules, 2 x controller assemblies, and all the wiring is pre-terminated to appropriate connectors to make installation as quick and easy as possible. Each kit has a very high light output, 2,500 lumens for 30W (H7) and 3,000 lumens for 40W (H4) of power light output. These modules will last up to 10,000 hours and are very efficient.

- Accurate LED position to ensure correct beam pattern
- More spot without glare
- Plug and play
- High intensity Cree® LEDs



Specifications	SL-3520	SL-3522	SL-3524
LED type	4 x Cree® XML U2	2 x Cree® MKR	2 x Cree® MKR
Colour temperature	6,000K	5,500K	5,500K
Lumens	7,600	3,000	3,800
Operation mode	Low	Low	High and Low
Power	40W	30W	40W
Input voltage	8VDC - 48VDC	8VDC - 48VDC	8VDC - 48VDC
Lifetime	10,000 hours	10,000 hours	10,000 hours
Dimensions	84(L) x 42(W)mm	84(L) x 42(W)mm	84(L) x 42(W)mm

↑ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12/24V	H4 Low	SL-3520	\$189.00	\$169.95	\$150.95
12/24V	H7 Low	SL-3522	\$189.00	\$169.95	\$150.95
12/24V	H4 High + Low	SL-3524	\$169.00	\$151.95	\$134.95

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AUTO & OUTDOORS AUTO EXTERIOR ILLUMINATION

CAR LIGHTING - INTERIOR

T5 & T10 Replacement LED Globes - 12VDC

Replace or jazz up your automotive dashboard or indicator lighting with LEDs! Not only will they spruce up the look of your car, they are also long life with low current consumption and total reliability.



• T5 & T10 sizes to suit most applications

T5 STYLE

T10 STYLE

↑				Cat.	Qty 1+	Qty 2+	Qty 4+
T5	Wedge	LED Globe	White	ZD-0380	\$1.95	\$1.75	\$1.40
T5	Wedge	LED Globe	Red	ZD-0381	\$1.95	\$1.75	\$1.40
T5	Wedge	LED Globe	Blue	ZD-0382	\$1.95	\$1.75	\$1.40
T5	B8.5D	LED Globe	White	ZD-0384	\$2.50	\$2.21	\$1.80
T5	B8.5D	LED Globe	Red	ZD-0385	\$2.50	\$2.21	\$1.80
T5	B8.5D	LED Globe	Blue	ZD-0386	\$2.50	\$2.21	\$1.80
T10	Wedge	LED Globe	White	ZD-0390	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Red	ZD-0391	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Blue	ZD-0392	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Quad White	ZD-0394	\$3.50	\$3.15	\$2.85
T10	Wedge	LED Globe	Quad Red	ZD-0395	\$3.50	\$3.15	\$2.85
T10	Wedge	LED Globe	Quad Blue	ZD-0396	\$3.50	\$3.15	\$2.85

LED Replacement Globes with 6 x 5730SMD LEDs

This range of common automotive and general use LED globes are also compatible with modern CANbus systems, so that they don't give globe failure warnings when you fit them to your modern vehicle. Each globe is powered by 12VDC, is fitted with six high brightness 5730SMD type LEDs, and have a non-polarity circuit so you don't have to worry about fitting them the right way around. There are three models to choose from:



Cat no.	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0730	T10 wedge	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm
ZD-0732	E10 screw	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm
ZD-0734	BA9S bayonet	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	T10 Wedge	ZD-0730	\$14.95	\$13.45	\$11.95
	E10 Screw	ZD-0732	\$14.95	\$13.45	\$11.95
	BA9S Bayonet	ZD-0734	\$14.95	\$13.45	\$11.95

Reversing LED Light Globe with Beeper

Replacement LED reversing light with built-in warning buzzer to warn pedestrians that you are reversing. Great for large caravans, trucks and buses. Suits vehicles with P21W BA15S reverse light bulbs.

• 9 Super Bright White LEDs

Specifications	ZD-0519
Brightness	> 6000 lux
Input voltage	12VDC
Current	< 400mA
Max SPL	115dB



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD-0519	\$9.95	\$8.75	\$7.75



Workbench sent to us by: Mark Jaycar Stockist: (we're not sure where)

I build and fly Remote Controlled Helicopters. A 3D printer would finish my work shop.

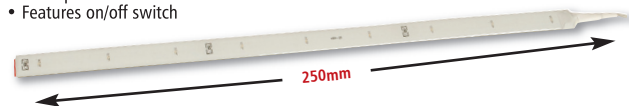
For more details, visit:
www.jaycar.com.au/workbench

CAR LIGHTING - INTERIOR & EXTERIOR

12VDC 9 x LED Flexible Strip Light Kit - Blue

Give your car the visual edge it deserves with this easy to install LED light strip. It's a flexible 250mm long strip with 9 x bright LEDs. Adhesive backing makes installation easy. Ideal for lighting under your car, in your engine bay, just above your accelerator pedal, and in corners/dark areas of your interior. A mountable on/off switch terminal is included for easier control.

- Strip Length: 250mm
- 12VDC
- 20,000 hour burn time
- Waterproof
- Features on/off switch



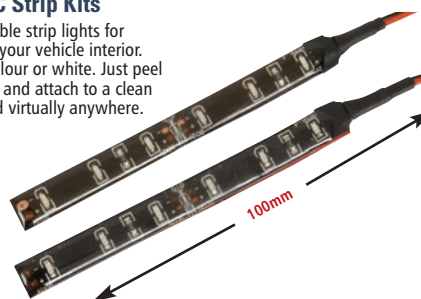
↑	Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
	Blue	SL-3957	\$9.95	\$8.75	\$7.75

2 x 6 LED Light 12VDC Strip Kits

Pack of 2 x 6 bright LED flexible strip lights for adding extra illumination to your vehicle interior. Choose from a sharp blue colour or white. Just peel off the protective 3M® cover and attach to a clean dry surface. Can be mounted virtually anywhere.

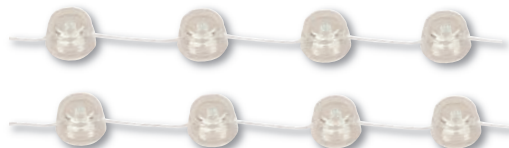
Two colours available:

- 100(L) x 11(H)mm



↑	Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
	White	SL-3951	\$14.95	\$13.35	\$11.70
	Blue	SL-3953	\$14.95	\$13.35	\$11.70

Exterior Automotive Pearl LED Kit



Easy to install pearl styled LED lights designed to add some luminescence to your vehicle. Adhesive backing plates allow you to stick them to any clean flat surface of your car.

- Pack of 8
- 12VDC
- Each LED is 25(Dia) x 18(H)mm

↑	Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
	White	SL-3959	\$11.95	\$10.75	\$9.55

12" Flexible 21 LED Light Tube

Many of you have probably seen LED lights styled similar to neons available from a few places, but not like this! Typically they are a line of LEDs mounted to a PCB at about 25mm intervals, mounted inside a clear acrylic tube. Our models have a major advantage over those units.



Ours are FLEXIBLE! They can mount straight, but will easily bend end-to-end, giving you a myriad of mounting options. You can't kink it like you would say, a garden hose, as the PCB inside will break if you push it too far, but they still provide excellent versatility. They are a great low current light source, drawing around 200mA.

- The tube is 24" (610mm) long, and houses 21 super bright LEDs.
- The white unit is great for general low-current lighting in a caravan, 4WD etc.

↑	Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
	White	SL-3950	\$24.95	\$22.35	\$19.70

CANBUS COMPATIBLE GLOBES

LED Festoon Replacement Globes, CANBus Compatible

A range of ultra-bright LED replacement "festoon" globes for car interior lights, which are fully compatible with modern "CANBus" systems that would otherwise give a globe failure warning when using an LED globe. Each globe features six ultra bright wide angle SMD LEDs, a non-polarity circuit (can fit the globe either way), and a CANBus circuit. There are three models to choose from, each working on 12VDC.



Cat no.	Size	Lumens	LED Type	Beam	Colour
ZD-0750	31mm	150	6x5730SMD	120°	White
ZD-0752	36mm	150	6x5730SMD	120°	White
ZD-0754	41mm	150	6x5730SMD	120°	White



Size	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	ZD-0750	\$12.95	\$11.35	\$10.35
36mm	ZD-0752	\$12.95	\$11.35	\$10.35
41mm	ZD-0754	\$12.95	\$11.35	\$10.35

CANBus Compatible Automotive BA15 Type LED Replacement Globes

More and more modern vehicles are employing an electronic control system called CANBus, which has many benefits including monitoring of globe failures. This can pose a bit of a problem with LED replacement globes causing the CANBus to detect that globe as having failed. This range of BA15 type LED globes are all CANBus compatible (won't give errors), with universal polarity, very low power consumption and a high lumen output.

- Powered by 12VDC, can be used as tail/brake light (BAY15D), parker light (BA15S), or even as interior light globes (BA15D/BA15S) thanks to their high brightness.
- The BA15D is very commonly used in caravan and marine interior lights. For off-road use only.



Three types available:

Cat no.	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0740	BAY15D	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm
ZD-0742	BA15D	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm
ZD-0744	BA15S	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm

Stop/Tail Lamp CANBus	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD-0740	\$19.95	\$17.95	\$15.70
Interior/Navigation Lamp CANBus	ZD-0742	\$19.95	\$17.95	\$15.70
Interior/Park/Reverse Lamp CANBus	ZD-0744	\$19.95	\$17.95	\$15.70

TECH TALK!

AUTOMOTIVE GLOBES

You may look at our range of LED automotive globes and wonder what all these different globe numbers mean: BA15S, T10, E10, BAY15D, etc.

Well luckily these numbers are an industry standard, and actually describe the type and size of the globe's base and pin arrangements.

Below is a list of the most common types of automotive globes, and a typical application for them:

T5	5mm wedge style base. Used in dashboard illumination
T10	10mm wedge style base. Used in dashboards, park light, number plate illumination, etc
T20	20mm wedge style base. Used in some indicators, tail and brake lights
E10	10mm Edison screw base. Used in some dashboards, park lights and number plate illumination (typically on older vehicles)
BA9S	9mm Bayonet cap base with single contact pin. Used in dashboards, park lights and various lights
BA15S	15mm Bayonet cap with single contact pin. Used in indicators, tail, parker and some brake lights
BA15D	15mm Bayonet cap with two contact pins. Used in caravan interior lights and marine navigation lights
BAY15D	15mm Bayonet cap with offset side location tabs, with two contact pins on the base. Used for tail/stop lights (high/low brightness)

360° "3D" BA15 Type LED Automotive Replacement Globes, CANBus Compatible

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.



Three models available:

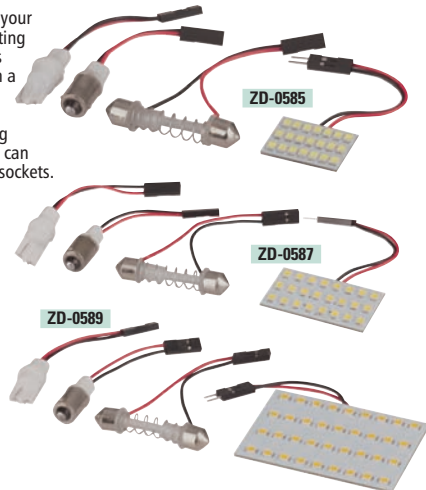
Cat no.	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0746	BAY15D	300	"3D" LED	360°	White	50(H) x 18(Dia)mm
ZD-0748	BA15D	300	"3D" LED	360°	White	50(H) x 18(Dia)mm
ZD-0749	BA15S	300	"3D" LED	360°	White	50(H) x 18(Dia)mm

Stop/Tail	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD-0746	\$34.95	\$31.45	\$27.95
Interior/Navigation	ZD-0748	\$34.95	\$31.45	\$27.95
Interior/Park/Reverse	ZD-0749	\$34.95	\$31.45	\$27.95

CAR LIGHTING KITS

Universal T10/T21/BA9S LED Retrofit Kits

Fantastic little kits to upgrade your car/caravan/boats interior lighting with LED technology. Each kit consists of an array of LEDs on a board with 3M adhesive foam backing, making it easy to retrofit into almost any existing light. There are 3 bases which can connect to T10, T21, or BA9S sockets. The base is then connected to the SMD LED array, couldn't be easier! The LEDs will give greater lifespan and brighter light in many cases.



Three kits available.

21 X SMD LEDs - ZD-0585

24 X SMD LEDs - ZD-0587

36 X SMD LEDs - ZD-0589

Specifications	ZD-0585	ZD-0587	ZD-0589
Power	2.5W, 12VDC	3W, 12VDC	4.5W, 12VDC
Lumens	260	310	450
LED type	2835 SMD	2835 SMD	2835 SMD
LED count	21	24	36
LED colour	Cool white	Cool white	Cool white
Dimensions	25(L) x 20(W)mm	45(L) x 25(W)mm	60(L) x 40(W)mm



Lumens	Power	Cat.	Qty 1+	Qty 2+	Qty 4+
260	2.5W	ZD-0585	\$9.95	\$8.75	\$7.75
310	3W	ZD-0587	\$12.95	\$11.35	\$10.35
450	4.5W	ZD-0589	\$14.95	\$13.45	\$11.95



Workbench sent to us by: Craig Jaycar Store: Dubbo

A lot of development, experimenting and exploring happening in this area. Albert Einstein - 'If a cluttered desk is a sign of a cluttered mind, of what, then, is an empty desk a sign?'

For more details, visit: www.jaycar.com.au/workbench

AUTO & OUTDOORS

TRAILER LIGHTING, PLUGS & CABLE

CAR LIGHTING - TRAILER LIGHTS

12V LED Trailer Lights (Stop/Turn/Tail)

Regular bulb failures in your trailer lights are not only a pain in the posterior, but also quite dangerous to your fellow road users. Switching to LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users. These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being; Stop, Tail, Turn and number plate illumination. They appear to be quite water resistant but we cannot quote an IP rating for water and dust. Also has a red reflector panel.

- Screw stud mount.
- 100(W) x 90(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Pair	ZD-0720	\$39.95	\$35.90	\$31.90

12V LED Trailer Light Kit with Wiring

Regular bulb failures in your trailer lights are not only annoying to replace, but also quite dangerous to your fellow road users. Switching to LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users. These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being; Stop, Tail, Turn and number plate illumination, along with a red reflector panel. The housing is submersible which is perfect for boat trailers, and each light is fitted with a connector to make wiring easier. The complete kit includes 2x trailer lights, with a pre-made 7m trailer cable with 7pin flat trailer connector. Sold as a pair.

- ADR Approved
- Screw stud mount.
- 7m pre-made trailer cable included
- Dimensions: 100(W) x 90(H)mm (each)

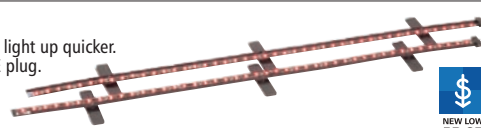


	Cat.	Qty 1+	Qty 2+	Qty 4+
	ZD-0722	\$69.95	\$62.95	\$55.95

12V 1.5m LED Brake Light Strips

Compared to normal incandescent bulbs LEDs are brighter, which makes them easier to see from a distance and light up quicker. Features a 2 piece durable construction and waterproof for exterior mounting. Install in minutes using 4 pin SAE plug.

- 90 x Red LEDs
- Dimensions: 1524(L) x 22(W) x 5(H)mm **Note: NOT ADR APPROVED**



	Cat.	Qty 1+
	SL-3962	\$49.95

TRAILER WIRING ACCESSORIES

Before 1988, the only trailer connector in common use was a 6 pin unit (There were some 5 pin plug/sockets found in Victoria, TAS, SA & NT). Since 1988 you must have a 7 pin (minimum) connector in order to register your boat, camper trailer etc. (You may need a bigger connector in some cases, so consult an auto electrician for this) in both Australia & New Zealand. You can, however, in the case of small box trailers use 5 core wire. See below.



Re-Wireable Trailer Connectors

A range of the most common 7pin trailer plugs and sockets, featuring easy to use screw down terminals, corrosion resistant metal contacts and high quality UV stabilised plastics. In each type, the socket is fitted to the vehicle, and the plug is fitted to the trailer.

- All trailer plugs and adaptors are made from the highest quality material.



	Cat.	Qty 1+	Qty 10+	Qty 50+
7 Pin Flat Plug	PP-2050	\$7.95	\$6.95	\$6.25
7 Pin Flat Socket	PS-2051	\$7.95	\$6.95	\$6.25
7 Pin Large Round Plug	PP-2052	\$7.95	\$6.95	\$6.25
7 Pin Large Round Socket	PS-2053	\$7.95	\$6.95	\$6.25
7 Pin Small Round Plug	PP-2054	\$7.95	\$6.95	\$6.25
7 Pin Small Round Socket	PS-2056	\$7.95	\$6.95	\$6.25

Trailer Plug Adaptor Leads

Often we find that the trailer we've borrowed from a mate does not plug into the socket on your vehicle, and that's where these trailer plug adaptor leads come in handy. About 300mm in length, and 6 versions available to fix up any mismatch of the 7 Pin Flat, 7 Pin Large round and 7 Pin Small round trailer connectors. Remember, match the plug end of the adaptor to the socket on your car, and the socket end of these adaptors to the plug end on your trailer.

- All trailer plugs and adaptors are made from the highest quality material.



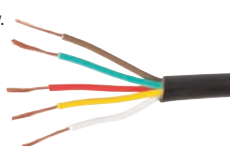
	Cat.	Qty 1+	Qty 3+	Qty 6+
7 Pin Flat Plug to 7 Pin Large Round Socket	PA-2061	\$15.95	\$14.35	\$12.70
7 Pin Flat Plug to 7 Pin Small Round Socket	PA-2062	\$15.95	\$14.35	\$12.70
7 Pin Small Round Plug to 7 Pin Flat Socket	PA-2063	\$15.95	\$14.35	\$12.70
7 Pin Large Round Plug to 7 Pin Flat Socket	PA-2064	\$15.95	\$14.35	\$12.70
7 Pin Small Round Plug to 7 Pin Large Round Skt	PA-2065	\$15.95	\$14.35	\$12.70
7 Pin Large Round Plug to 7 Pin Small Round Skt	PA-2066	\$15.95	\$14.35	\$12.70

5 Core Box Trailer Cable - 10m

A 10 metre length of the standard 5 conductors sheathed in a tough black PVC jacket.

Conductor colours are listed below. Makes wiring easy.

- Yellow (Left indicator)
- White (Earth)
- Green (Right indicator)
- Red (Stop light)
- Brown (Tail light, no. plate & clearance)



* Suitable for box trailers only. You still must use 7 pin connectors.

	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Core	WH-3091	\$39.95	\$35.15	\$29.95

7 Core Trailer Wiring Loom - 10m

A 10 metre length of the standard 7 conductors sheathed in a tough black PVC jacket. Conductor colours are listed below. Makes wiring easy. 10m accommodates even up to quite large boat trailers.

- Yellow (Left indicator)
- Black (Aux/reversing)
- White (Earth)
- Green (Right indicator)
- Blue (Electric brakes)
- Red (Stop light)
- Brown (Tail light, no. plate & clearance)



	Cat.	Qty 1+	Qty 4+	Qty 10+
7 Core	WH-3090	\$44.95	\$39.55	\$33.70

IN-CAR ENTERTAINMENT

In-Dash MP3 Player with Radio

With high capacity USB drives and SD cards being so cheap now, this is an excellent alternative to carrying around a glove box full of CDs - instead you can listen to your favourite MP3s directly from the USB/SD card slot. Featuring PLL AM/FM tuner with 18FM/12 AM presets and MP3/WMA playback you will never miss a beat with this in-dash MP3 player. Thanks to the lack of a CD drive, the mounting depth is quite shallow making it a breeze to install in tight space locations such as a glove box.

- MP3/WMA playback
- MP3 ID3 tag display
- 4 x 20WRMS power output
- Rotary volume encoder
- Multi band EQ
- PLL tuner with 18FM/12AM presets
- 2 channels x 2V line-out



RESPONSE



	Cat.	Qty 1+	Qty 2+	Qty 4+
MP3 Player with Radio	QM-3781	\$129.00	\$115.95	\$102.95

In-Dash Multimedia Player with USB & Bluetooth®

A solid all-round performer, this in-car entertainment system plays various popular multimedia formats and connects with external media players and file storage devices in a number of ways. Featuring the latest in file sharing with Bluetooth, front panel SD card slot, USB port and aux-in; it supports MP3, JPEG and WMA files. It also has AM/FM radio with 18 x AM and 12 x FM programmable preset stations and plays DVDs, VCDs and CDs. This highly versatile head unit has further input/output options, including NTSC/PAL video out, subwoofer out, and a mic input to make it a fully functional handsfree car kit when paired with a Bluetooth-enabled mobile phone. Complete with flip-down and detachable panel with colour LCD and slimline remote control.

- Bluetooth file sharing and handsfree mobile phone capability
- Front USB port, SD/MMC card slot and aux-in
- PLL tuner with 18 x FM and 12 x AM presets
- DVD ± R/RW, CD-R/RW playback
- 4 channels x 20WRMS output (40WRMS max)
- 4-band equaliser (classic, pop, rock, flat)



RESPONSE



	Cat.	Qty 1+	Qty 2+	Qty 4+
Multimedia Player with USB	QM-3788	\$269.00	\$239.00	\$209.00

Amplifier Remote Signal Switcher

This device connects to the speaker output of your car's head unit or amplifier. Once it detects that there is audio playing it triggers a relay so you can trigger other audio components, including an amplifier or CD stacker.

- It features a 2-3 second delay to help avoid any turn-on pop in aftermarket amplifiers.
- Dimensions: 58(L) x 45(W) x 28(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0419	\$9.95	\$8.75	\$7.75

MONTHLY SPECIALS

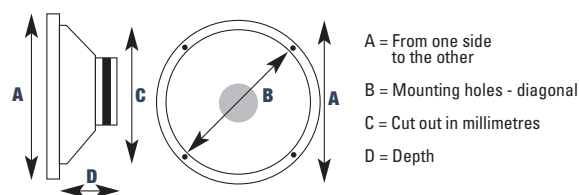
Look out for our monthly promotions in store now!

TECH TIP

NOTES ABOUT SPEAKER SPECIFICATIONS

- In an effort to assist customers choices between speakers, our entire speaker range have been assessed and measured under the same test conditions. Therefore making the resulting data in this catalogue comparable.
- All drivers have been measured for Thiele and Small parameters after a period of "Breaking In" for a minimum of 15 hours, and not tested straight off the shelf. This ensures a more long term and realistic result.

SPEAKER DIMENSIONS:



RELATED PRODUCTS

2 Channel Line Level Converter

Connects to the speaker output of your car's head unit and converts the high level speaker output to a high quality line level output for the aftermarket car amplifier. This device boosts the output signal up to 10V RMS (Peak); an improved signal quality less prone to interferences and produces better quality and powerful sound. It also provides a remote output to turn on the amplifier and other audio components. It features a Molex plug that makes the whole installation process quite easy.

- Super low distortion
- Adjustable output step down
- Adjustable line level output up to 10V
- Quick auto signal sense turn on
- Remote output trigger
- Dimensions: 120(W) x 76(H) x 26(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0416	\$29.95	\$26.95	\$23.70

4 Channel High Quality Line Level Converter

An improved speaker to line level converter solution over the low cost and poor performance transformer type. This premium 4 channel LOC offers low distortion and exceptional power handling of up to 150W. Individual output gain controls are available and has a remote output for amplifier trigger. Uses a Molex plug and wiring harness for quick and simple installation.

- Super low distortion
- Adjustable output
- 150W Maximum input
- Remote output trigger
- Dimensions: 93(W) x 105(H) x 29(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0418	\$39.95	\$35.90	\$31.90

CAR ANTENNAS & ACCESSORIES

Standard Lockdown

- 4 section
- Extends to 770mm
- Cable length 1.2 metre

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-3250	\$8.95	\$7.95	\$6.95



Rubber Topmount

- Small rubber antenna bends when it hits something.
- Good for 4WDs etc.
- 1 section
- Length 350mm
- Cable length 1.2 metre.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-3260	\$18.00	\$15.95	\$14.35



AR-3250

AR-3260

Car Aerial Extension

Need a longer aerial lead in your car?

- Standard aerial socket to plug.
- Length: 3 metre

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-3253	\$8.95	\$7.95	\$6.95



Car Radio Antenna Line Plug

Solder type.

- Standard antenna plug

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-2040	\$1.65	\$1.45	\$1.30



Car Radio Antenna Line Plugs

SOLDERLESS CAR RADIO ANTENNA LINE PLUG

Replacement or connector for new antenna installation.

PP-2044



CAR RADIO ANTENNA LINE PLUG

- Solder type with plastic strain relief.

PP-2041



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Solderless	PP-2044	\$2.95	\$2.60	\$2.30
Solder type	PP-2041	\$2.50	\$2.21	\$1.95

Solderless Car Radio Inline Socket

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2046	\$3.95	\$3.45	\$3.15



Car Radio Antenna Adaptor Plug

Converts Motorola to European style antenna sockets.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-2048	\$4.95	\$4.45	\$3.90



Car Radio Antenna Adaptor Plug

Converts European style antenna plug to Motorola style antenna plug.

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-2038	\$4.95	\$4.45	\$3.90



ACOUSTIC SOUND ABSORBING DEADENING

Ideal for car sound installations. One of the most hostile environments for a loudspeaker is in the door of a car. It is made out of flexible sheet steel which, when it is not vibrating & absorbing energy by rattling or buzzing, is reflecting energy all over the place! To produce Hi-Fi sound in a car you not only need to control the acoustics of the car environment. As any professional will tell you, it's the installation which makes for sound quality more than any other factor.

Heavy Duty Sound Barrier Damping Material

This is basically a flexible plastic-like material that forms an attenuating / reflecting sound barrier. The product is made of 25% PVC loaded and spread evenly with barium mineral powder which takes up the other 75% (by weight) of the product. The barium mineral is very heavy and makes the vinyl heavy and impenetrable to sound waves. It's sort of like if lead was plastic! It weighs 4kgs per square metre. It is ideal for any surface that needs to be 'deadened' e.g. car door or floor panels. It completely damps (ie prevents) any panel resonating from high power speakers. It is also amazing for attenuating road noise from steel car floors, etc. It can be cut with a hobby knife or good scissors etc. The material is held in place with spray or gel contact cement. One sheet is generally enough for the average car door.



- Supplied in a polyethylene bag.

Specifications	AX-3680
Sheet	700 x 330 x 2.3mm thick (approx)
Sound transmission class	26
Humidity	Unaffected
Stability	Indefinite

Specifications - Chemical Resistance

Petrol/Diesel	Moderate
Acetone	Good
10% HCl	Good
10% NaOH	Poor

Specifications - Mechanical Properties

Density	1.74 g/cm³
Tensile	3000N/50mm
Elongation	<0.2%
Working Temp	0°C to 95°C

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Sheet	AX-3680	\$13.95	\$12.55	\$11.15

Self-Adhesive Sound Absorbing Foam

The perfect ultra light weight insulator to use in conjunction with AX-3687.

This durable crush and tear-resistant material has the highest heat blocking properties available in a single layer synthetic foam-type material. Not affected by oil and does not absorb water. It provides acoustic isolation and excellent thermal insulation for roof, firewall, floor, quarter panels, doors and even as an under bonnet liner. Adhesive backed for easy installation.



- Size: 660 x 330mm / Thickness: 5mm
- Temperature range: -15 - 100°C

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX-3662	\$14.95	\$13.35	\$11.70

Butyl Based Sound Deadening Material

Give your vibrating buzz-box a luxury car ride with this butyl-based, foil backed sound deadening material. By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc, you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut.

Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX-3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.



- Size: 900 x 330mm / Thickness: 1.5mm
- Temperature range: -10 - 110°C

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX-3687	\$29.95	\$26.95	\$23.95

Combination Butyl/Foam Super Sound Deadener

Combining both the sound deadening properties of butyl material, and insulating properties of honeycomb foam, this is an easy single application solution for complete sound deadening and isolation that also offers thermal insulation. Consisting of a layer of our AX-3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX-3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.



- Size: 660 x 330mm / Thickness: 4.5mm (1.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX-3689	\$29.95	\$26.95	\$23.95

RESPONSE CAR SPEAKERS

Low cost doesn't mean low quality. Coax speakers are an ideal replacement for the standard equipment stereo speakers you get in the average car. All are equipped with titanium coated fibre woofers and silk dome tweeters for smooth high frequency response.

RESPONSE



• Sold as a pair
4" Coax 2 Way
CS-2310

5" Coax 2 Way
CS-2312

6.5" Coax 2 Way
CS-2314

6 x 9" Coax 2 Way
CS-2316



CS-2310



CS-2312



CS-2314



CS-2316

Specifications	CS-2310	CS-2312	CS-2314	CS-2316
Power handling	15WRMS	17WRMS	22WRMS	27WRMS
Nominal impedance	4 ohms	4 ohms	4 ohms	4 ohms
Frequency response	90Hz - 18kHz	70Hz - 18kHz	60Hz - 20kHz	55Hz - 18kHz
Sensitivity	83dB SPL @1W, 1m	85dB SPL @1W, 1m	88dB SPL @1W, 1m	86dB SPL @1W, 1m
Qms	3.2	4.28	4.88	4.76
Qes	1.85	1.88	1.5	1.57
Qts	1.18	1.31	1.15	1.18
Vas	1.45 litres	3.31 litres	10.18 litres	17.3 litres
Fo	122Hz	106Hz	75Hz	61Hz

↑	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	102	115	93	42	CS-2310	\$34.95	\$31.45	\$27.95
	130	138	115	44	CS-2312	\$34.95	\$31.45	\$27.90
	166	158	142	52	CS-2314	\$44.95	\$40.45	\$35.90
	236 x 165	205	218 x 148	75	CS-2316	\$59.95	\$53.95	\$47.95

Workbench sent to us by: Les Jaycar Store: Rydalmere

This space has evolved over last 7 years with the main function being repair, service & construction of various electronic & mechanical projects.

For more details, visit:
www.jaycar.com.au/workbench



RELATED PRODUCTS

Speaker Cable - Extra Heavy Duty Figure 8

Cable is 2 x 79/0.2mm.

ROLL LENGTH 30 METRES

See page 202 for
DC Power Cable



↑	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	WB-1713	\$74.95	\$67.50	\$59.00

Quick Release Car Audio Power Connector

Designed to offer safe and fast removal of your high power car audio, secondary battery or other high current DC set up. The unit acts as a heavy duty quick release plug and socket that connects positive, negative and remote wires. It has two components - one end to connect to your equipment and the other to your power source. Capable of handling up to 140A. Comes with a bracket for secure mounting. The device is tough enough and made from high quality ABS plastic.



• Dimensions: 62(L) x 48(W) x 31(D)mm

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC-4067	\$29.95	\$26.95	\$23.70

RESPONSE PRECISION KEVLAR COAXIAL CAR SPEAKERS

These are our ever popular Response Precision Kevlar Coaxial Speakers that has won many awards and magazine recommendations in the past, only with a new look. The Kevlar speaker cone is now supplied in Black but it still retains its outstanding performance that we are all accustomed to. The tweeters are still the original soft dome tweeter that provide clean, crisp sounds and maintains a natural and smooth balanced sound; nestled in an adjustable bracket for optimal sound trajectory. Virtually unchanged in design and performance, we have put our efforts in changing one thing; the price. Now at a more competitive price points; these coaxial speakers are great value for money topped with award winning performance.

RESPONSE PRECISION



WARRANTY



All models are paired with Soft Dome Tweeters!

- Sold as a pair

4" Kevlar/ Dome Tweeter 2 Way

CS-2400



CS-2400

5" Kevlar/ Dome Tweeter 2 Way

CS-2401



CS-2401

6.5" Kevlar/ Dome Tweeter 2 Way

CS-2402



CS-2402

6 x 9" Kevlar/ Dome Tweeter 2 Way

CS-2403



CS-2403

Specifications	CS-2400	CS-2401	CS-2402	CS-2403
Power handling	40WRMS	50WRMS	75WRMS	75WRMS
Nominal impedance	4 ohms	4 ohms	4 ohms	4 ohms
Frequency response	70Hz - 7kHz	80Hz-20kHz	65Hz-20kHz	55Hz-20kHz
Sensitivity	88.5dB SPL @ 2.83V, 1m	89dB SPL @ 1W, 1m	89dB SPL @ 1W, 1m	90dB SPL @ 1W, 1m
Qms	10.25	3.3 ohms	3.3 ohms	3.4 ohms
Qes	1.12	6.91	5.90	7.99
Qts	1.01	0.76	1.23	0.79
Vas	1.7 litres	0.68	1.02	0.71
Fs	115Hz	5.27 litres	5.94 litres	31.1 litres

↑	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	102	90	93	47	CS-2400	\$89.95	\$80.95	\$71.95
	130	118	120	62	CS-2401	\$109.00	\$97.95	\$86.95
	178	157	144	68	CS-2402	\$129.00	\$115.95	\$102.95
	235x163	220x150	222	90	CS-2403	\$149.00	\$133.95	\$118.95

Workbench sent to us by: Adam Jaycar Store: Reynella

This is my little electronics bench very basic but functional with good ventilation and lighting. All parts are within easy reach. and plenty of space for working.

Would love a 3D printer for tinkering and making small components.

For more details, visit:
www.jaycar.com.au/workbench



ACTIVE SUBWOOFERS

8" Under Seat Active Subwoofer

Add some bottom end to your car audio, even if you don't have room for a sub. MOSFET output stage for low distortion and noise. The compact size means it will fit under a seat and is robust enough to take some knocks. Ideal for utes, convertibles and trucks.

Specifications	CS-2286
Power output	55WRMS
Frequency response	60 - 480Hz
S/N ratio	70dB
THD	0.06%
Input sensitivity	Line level 200mV Speaker level 800mV
Low pass filter	40 - 280Hz @ 12dB/octave
Variable gain	0 - 18dB @ 50Hz
Phase shift	-180 - 180
Dimensions	360(L) x 250(W) x 80(H)mm



**BEST
SELLER**

**1
YEAR
WARRANTY**

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
8" Active Subwoofer	CS-2286	\$189.00	\$169.95	\$150.95

CAR AUDIO ACCESSORIES

Line Level Control (Attenuator)

This unit when fitted in a signal line allows you to adjust downwards excessive signal levels. You may have, for example a source from a CD/MP3 player and a tuner. Often one source is too loud (at line level) to the other.

- Stereo
- RCA line sockets in/out
- Measures 60(L) x 55(W) x 37(H)mm



**1
YEAR
WARRANTY**

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3078	\$9.95	\$8.75	\$7.75

Car Radio Suppressor

Traditional condenser type.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3060	\$3.95	\$3.45	\$3.15

CAR NOISE FILTERS

Car noise filters or hot line filters are used to reduce noise and interference entering your car stereo through the power lead. The car alternator is one of the most common sources of problems, and these essential devices can help to reduce this.

10A DC Noise Filter

The filter itself arrests any noise on the DC power supply to car stereos, CBs etc better than ever. Most importantly it enables the installer to mount the unit without drilling mounting holes. You can secure this unit with either short or long cable ties. It will also "saddle" on a wiring loom if necessary. Has 10A rated + & - DC leads & separate earth lead which should be terminated to chassis.

- Measures 90(L) x 60(W) x 33(H)mm

**1
YEAR
WARRANTY**



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
10A	AA-3074	\$14.95	\$13.35	\$11.70

GROUND LOOP ISOLATORS

Ground Loop Isolator (Stereo) 3.5mm

Used to eliminate ground loop problems in audio installations. The unit has a 3.5mm stereo sockets on both ends. Suitable for use with laptops, mp3 players, iPods® etc. Note: Units AA-3074/78/84 & 86 can be fastened to any surface, fitting etc by simple cable clamps.



**1
YEAR
WARRANTY**

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3086	\$10.95	\$9.85	\$8.75

Ground Loop Isolator (Stereo) RCA

Used to eliminate ground loop problems (usually manifested as a low hum) in audio connections. The earthing brown ground wires sometimes helps even more.



**1
YEAR
WARRANTY**

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3084	\$9.95	\$8.75	\$7.75

Speaker (High Level) to Line Level Converter

Converts high level (high power) speaker signals back down to low level (i.e. line or <1 volt signals). You can then safely use those signals as line inputs to amps without potential damage to amps or other speakers. Features variable attenuators to reduce signal up to 6 times.

- RCA socket out (stereo)
- External dimensions: 90(L) x 35(H) x 57(W)mm



**1
YEAR
WARRANTY**

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0482	\$14.95	\$13.35	\$11.70

TECH TALK!

When it comes to DIY car installation Jaycar carries the best range of accessories and wiring materials around. For example, we have automotive wiring from 3A rating up to hundreds of amps. We have circuit breakers, terminal boxes, sound insulation, tools - well, everything! It would be really worth your while to have a comprehensive read. You will be staggered by our range of products!

RELATED PRODUCTS

Car Amplifier Wiring Kits

Complete wiring kits for installing an amplifier into your vehicle. Everything you need, down to the cable ties and screws. Save \$5 on the individual parts.

8GA WIRING KIT

- 6m x 8GA power cables
- 9m x 16GA speaker wire
- 5.2m stereo RCA interconnect
- 5.2m 18GA remote wire
- Gold plated fuse holder
- 40A fuse
- Loom tubing, gold plated crimp connectors, grommets, cable ties & screws.

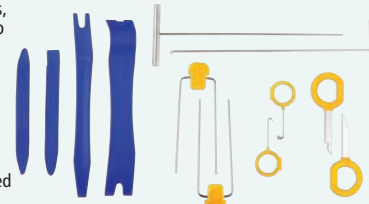


↑	Cat.	Qty 1+	Qty 4+	Qty 10+
8G Wiring Kit	AA-0442	\$64.95	\$58.50	\$51.95

12 Piece Car Audio & Interior Removal Kit

Make the DIY job easier using this Kit. Prevent scratching and damaging your vehicle interior with specialised tools. Made from a strong ABS plastic. Includes various lever handles, ring hooks, straight rods, and plastic "push lock" retainers to help remove car exterior and interior trim, dash and door panels. Fits most models.

- Lever handles supplied:
A: 190(L)mm, B: 210(L)mm,
C: 155(L)mm and D: 150(L)mm
- Straight hook: 230(L)mm/Curved hook: 250(L)mm



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Removal Kit	TH-2339	\$19.95	\$17.95	\$15.70

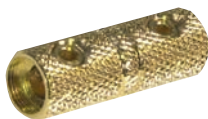
AUTO & OUTDOORS

POWER CONNECTORS

GOLD CAR SOUND CONNECTORS

Gold Plated High Current Cable Joiners

If you have ever tried to connect, crimp or solder 8GA or even 4GA cable you will understand how convenient these gold-plated brass connectors are. Each cable termination is via gold grub screws and joiner is supplied with small transparent insulating heatshrink tube.



↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Suit 8GA cable	HC-4065	\$7.95	\$6.95	\$6.25
Suit 4GA cable	HC-4064	\$7.95	\$6.95	\$6.25

Gold Plated Terminals

Supplied in pairs. 1 red and 1 black.

8GA QC GOLD CONNECTORS SMALL EYE RED & BLACK

Specifications	PT-4560
Hole size	3.7mm
Cable hole diameter	4.8mm
Size including cover	35mm
Metal thickness	1mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4560	\$2.75	\$2.45	\$2.15

8GA QC GOLD CONNECTORS LARGE EYE RED & BLACK

Suits thinner cable (8GA):

Specifications	PT-4562
Hole size	8.4mm
Cable hole dia	4.8mm
Size including cover	42mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4562	\$2.95	\$2.60	\$2.30

4GA QC GOLD CONNECTORS LARGE EYE RED & BLACK

Suits Large Cable (4GA):

Specifications	PT-4564
Hole size	8.4mm
Cable hole dia	8mm
Size including cover	50mm
Metal thickness	1.5mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4564	\$3.95	\$3.45	\$3.15

2GA QC GOLD CONNECTORS EYE RED & BLACK

Suits 2GA cable.

Specifications	PT-4565
Eye hole size	12.7mm
Cable hole dia.	9.6mm
Size including cover	60mm
Metal thickness	1.5mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4565	\$5.95	\$5.25	\$4.75

0GA QC GOLD CONNECTORS EYE RED & BLACK

Suits thick cable (0GA)

Specifications	PT-4567
Hole size	8.4mm
Cable hole dia	11.8mm
Size including cover	60mm
Metal thickness	1.6mm

AMP-KING



↑	Per Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	Red & Black	PT-4567	\$6.95	\$6.25	\$5.50

8GA QC GOLD CONNECTORS FORKED SPADE TERMINALS

Suits thinner cable (8GA):

Specifications	PT-4566
Hole size	3.7mm
Cable hole dia	4.8mm
Size including cover	33mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4566	\$2.95	\$2.60	\$2.30

QC CONNECTORS FORKED SPADES

Standard quick connect lugs that fit speaker terminals etc.

- Cable hole diameter - 3.7mm

AMP-KING



↑	Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
	1 x Red & 1 x Black	PT-4568	\$2.50	\$2.21	\$1.95

TECH TALK!

GA = GAUGE OR STANDARD WIRE SIZE

0GA - Outside dia of 15mm - actual cable is 45mm²
 2GA - Outside dia of 12mm - actual cable is 35mm²
 4GA - Outside dia of 10mm - actual cable is 20mm²
 8GA - Outside dia of 6mm - actual cable is 8mm²

GOLD FUSED POWER DISTRIBUTION BLOCKS

Gold Power Distribution Block

This block will accept one 4GA wire in, and distribute to four 8GA out.

- Size includes mounting bracket



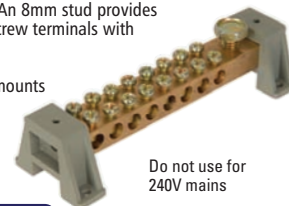
AMP-KING

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
63(L) x 50(W) x 25(H)mm	HC-4020	\$12.95	\$11.35	\$10.35

16 Way 100A Brass Distribution Bar

An ideal way to distribute high current paths. An 8mm stud provides for incoming cable and distribution is via 16 screw terminals with 7mm cable entry holes.

- Solid brass with high quality plastic bridge mounts
- Rated for 100A, suitable for high-power car audio power distribution or multiple earth links



Do not use for 240V mains

See our 8 way version on page 270

AMP-KING

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
112(L) x 18(W) x 12(H)mm	SZ-2004	\$9.95	\$8.75	\$7.75

CYLINDRICAL FUSES & HOLDERS

Gold Fuseholder With Mounting Bracket

Gold contacts and will accept both 8GA & 4GA cable. A mounting bracket is incorporated. Length 80mm - accepts 5AG fuses.



AMP-KING

↑	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	5AG	SZ-2060	\$9.95	\$8.75	\$7.75

5AG Gold Fuses

These fuses suit our fuseholders shown here. They have gold plated ends - and the inside conductor is also gold. Available in a range of current ratings.



- Fuse size 38(L) x 10(Dia)mm

AMP-KING

↑	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
	20A	SF-1970	\$2.25	\$1.95	\$1.80
	30A	SF-1972	\$2.25	\$1.95	\$1.80
	40A	SF-1974	\$2.25	\$1.95	\$1.80
	50A	SF-1976	\$2.25	\$1.95	\$1.80
	60A	SF-1978	\$2.25	\$1.95	\$1.80



Workbench sent to us by: Victor Jaycar Store: East Kew

My well loved and slightly cluttered workplace - the source of many hours of joy and experimentation.

Thank you Jaycar for always being close at hand.

For more details, visit: www.jaycar.com.au/workbench

AUTOMOTIVE TEST EQUIPMENT

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground.

- Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.

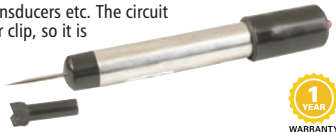


See Wireless Tester page 269

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2049	\$3.95	\$3.45	\$3.15

3 - 28V Pro Grade Automotive Tester

This professional grade cordless voltage tester is designed for use on modern cars. The voltage tester detects from 3 to 28 volts. It will light up and buzz when positive voltage is detected. Made from rugged chrome metal construction it is safe to use with ECMs, air bags, sensors, transducers etc. The circuit tester does not require a ground wire or clip, so it is easy to check in hard to reach places. A probe is supplied with a V-Groove tip to make piercing wire insulation safe. N size battery included (replacement batteries use SB-2346).



	Cat.	Qty 1+	Qty 3+	Qty 6+
Auto Tester	QP-2212	\$16.95	\$15.25	\$13.55

Battery, Charger & Alternator Testers

These handy devices quickly indicate the condition of your car or truck battery, charger or alternator. They use 3 LEDs to indicate battery and charge under engine on/engine off conditions. Compact and lightweight, they include 600mm leads with crocodile clips, and an inbuilt magnet to secure the unit while taking measurements.

- Dimensions: 120(L) x 33(W) x 20(D)mm



We have a large range of Automotive/Marine Battery Chargers on page 240

	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC Tester	QP-2258	\$12.95	\$11.35	\$10.35

Automotive Multi-Function Circuit Tester with LCD

Designed to test the electrical system of an automotive vehicle running on 12V or 24V. One of the great features is being able to activate components with positive or negative without using a jumper wire. To top it all off the easy to read LCD is backlit so it's perfect for the dark crevices of an engine bay. All the features of a brand name unit at a fraction of the price. For full specifications see our website.

- Works on 12 or 24V systems
- Dimensions: 240(L) x 78(H) x 40(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Auto Tester	QM-1494	\$64.95	\$58.45	\$51.95

Cigarette Lighter Battery Monitor

Check the voltage output of your car's battery quickly and easily. Simply plug this handy voltmeter into the cigarette lighter socket and get an instant readout of the electrical system's voltage.

- Display resolution: 0.1V
- Accuracy: +/- 2%
- Operating voltage: 8 - 30VDC



	Cat.	Qty 1+	Qty 5+	Qty 10+
Battery Monitor	QP-2220	\$19.95	\$17.95	\$15.95

Cigarette Plug Alternator / Battery Monitor

Having car batteries or alternators diagnosed and fixed can be unnecessarily expensive, both sit firmly in the realm of DIY. Replacing an alternator can cost up to \$300, when in fact all that may need to be replaced is a \$20 voltage regulator. This device will help you diagnose the source of your cars electrical problems and potentially save you a lot of money.

It simply plugs into your car's cigarette lighter socket and will present you with alternator and battery status. For full specifications see our website.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Alternator/Battery Monitor	PP-2142	\$9.95	\$8.75	\$7.75

12V Car Voltage, Alternator & Temperature Display

Plugs into the car's cigarette lighter socket to display the car's battery voltage and inside temperature. An audible and visual alarm can be set to trigger when the car's battery voltage dips too low, which could save you from breaking down in the middle of nowhere with a dead car battery. The display features a tri-coloured LED to show the battery status and electrical system status at a glance. Stylish modern design allows for easy dash mounting.



- Celsius or Fahrenheit temperature display
- 12VDC

	Cat.	Qty 1+	Qty 3+	Qty 6+
Temperature Display	XC-0117	\$54.95	\$49.45	\$43.95

Versatile Automotive LED Display Module for Cars

This versatile module will allow you to monitor the battery voltage, the airflow meter, or oxygen sensor in your car. It features a 10 LED indicator that illuminates in response to the measured voltage so you can see if your O2 sensor is causing your car to run too rich or too lean. Preset 9-12V, 0-5V or 0-1V ranges, complete with fast response time, high input impedance and auto dimming for night time driving.



Specifications	AA-0375
Power	12VDC
Dimensions	81(L) x 52(W) x 21(H)mm



	Cat.	Qty 1+
LED Display Module	AA-0375	\$11.95

Fuel Mixture Display Module for Cars

This very simple module will allow you to monitor the fuel mixtures being run by your car. This type of sensor is also known as an E.G.O. (exhaust, gas, oxygen) monitor. You can use it as a tuning tool, to help in vehicle modification or simply to see the behaviour of the engine control module. Indication is via 10 LEDs to show mixtures rich, lean and normal. The circuit connects to the EGO sensor mounted in the exhaust manifold & the cars battery.



Specifications	AA-0374
Power	12VDC
Dimensions	81(L) x 51(W) x 22(H)mm



	Cat.	Qty 1+
Fuel Mixture Display Module	AA-0374	\$11.95

Speedo Corrector Module for Cars

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.



Specifications	AA-0376
Power	12VDC
Dimensions	63(L) x 46(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Speedo Corrector Module	AA-0376	\$44.95	\$40.45	\$35.90

Digital Tachometer

This easy-to-use hand-held digital tachometer measures up to 99,999 RPM and features a large LCD, laser pointer, low battery indicator, and memory recall for the last displayed value, minimum value, and maximum value. It also features a DC socket for mains power (5VDC at 50mA). It can also be switched to measure either actual RPM or total revolutions. Supplied with carry case and 600mm reflective tape marks.

- 5 Digit
- 99,999 RPM

Specifications	QM-1448
Display	2000 count
Test range	2.5 to 99,999 RPM
Basic DC accuracy	0.5%
Sampling	0.5 sec (over 120RPM)
Range select	Autorange
Detection distance	50 to 500mm
Power consumption	50mA approx.
Batteries	4 x AA batteries (included)
Dimensions	160(H) x 72(W) x 37(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Tachometer	QM-1448	\$79.95	\$71.95	\$63.95

AUTO & OUTDOORS IN-CAR MONITORING

OBD2

OBD2 (Car Computer) Plug / Memory Saver

Most modern cars engine systems are controlled by a computer (engine control unit). They adjust fuel/air mixture, ignition timing, and a range of other engine performance settings based off information they receive from a number of sensors plugged into your car (oxygen sensor, temperature sensors etc). When disconnecting your car's battery for simple maintenance, all of your cars computer settings will be wiped. Radio station settings, engine fault codes, keyless entry codes, will all be gone and the ECU will have to re-learn them or you will have to manually re-program them. That's where the memory saver comes in. Just connect the cigarette plug to a 12VDC source, such as a jump starter and the OBD2 port to your cars socket (commonly found under the steering wheel) to save the ECU settings.



- 16 pin OBD-II Connector
- Easy to read LED indicates connection
- Compatible with most post-1996 vehicles fitted with an OBD2 port
- Length: 1.5m

↑	Cat.	Qty 1+
OBD2 Plug	PP-2140	\$5.95

OBD2 Wi-Fi Engine Code Reader

Modern car engines are controlled by computers which regulate engine performance. Sensors are connected to major components which constantly send data to the computer which then adjusts performance accordingly to ensure minimal emissions and optimal performance. Reading data from these computers helps mechanics pinpoint where problems may lie in car performance. You can also find out this information with this OBD2 engine code reader. It connects to your OBD2 port and will immediately interpret the information in the ECU (engine control unit). You can use this information to find faulty sensors which adversely affect performance, see if cylinders are misfiring, see how hot your engine coolant is, view engine RPMs and much more. Diagnosing and fixing certain problems yourself can save a lot of time and money. It's also fascinating to see how much engine information is readily available in modern cars.



2 Models available:
OBD2 Bluetooth Engine Code Reader - PP-2145
OBD2 Wi-Fi Engine Code Reader - PP-2146

- Viewable parameters*
- Vehicle Speed
 - RPM
 - Fuel Consumption
 - Engine Coolant Temp
 - Fuel Pressure



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Bluetooth Engine Code Reader	PP-2145	\$69.95	\$62.95	\$55.95
Wi-Fi Engine Code Reader	PP-2146	\$74.95	\$67.45	\$59.95

CAR DISPLAYS

LCD GPS Speedometer

More accurate than mechanical speedometers, the GPS speedo works independently of the vehicle so it is not subject to factors such as tyre pressure, circumference, diff ratio, etc. This wireless unit is also safer to use on the road as the big LCD display can be mounted on the windshield and allows you to check speed without having to take your eyes off the road. You can also take this anywhere, use it on your boat, ATV or bike. Supplied with suction mount holder, USB cable and cigarette lighter charger.



- Selectable mph or km/h
- 2" Large digit display
- Rechargeable via USB, 5V/500mA
- Dimensions: 67(W) x 51(H) x 25(D)mm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
GPS Speedometer	LA-9025	\$99.95	\$89.95	\$79.95

OBDII Heads Up Display

This device obtains diagnostic data from your vehicles OBDII port and projects the information to your windscreen so you don't have to take your eyes off the road to view what's happening. Features a 3" multicolour LED display.

Information available includes;

- Speed
- Engine Speed
- Water Temperature
- Battery Voltage
- Fuel Consumption
- Low Voltage Alarm
- High Temperature Alarm
- Speed Alarm



↑	Cat.	Qty 1+	Qty 2+	Qty 4+
OBD II Hud	LA-9027	\$99.95	\$89.95	\$79.95

MICROCHIP MILESTONES

THE PLANAR PROCESS

In 1958 a scientist named Jack Kilby - a recently hired employee to Texas Instruments created the worlds first integrated circuit. It was a phase-shift oscillator and was fabricated on a Germanium Crystal. It had problems. Each circuit element had to be dielectrically isolated from the next. Kilby rather crudely spaced the elements by a wide margin and even cut channels in the germanium substrate to provide "air isolation."

The elements were wired together with gold wire looping over the substrate and got welded to form the circuit. Messy, but it fulfilled the definition of an IC. Texas blew their trumpet long and loud about this and the ultra-competitive industry stood up and took notice. Kilby was awarded a Nobel prize in 2000.

At the Sprague Electric company in Massachusetts, a scientist by the name of Kurt Lehovec realised that a reverse-biased P-N Junction could be an insulator to other circuit elements. Over at Fairchild, Gordon Moore worked on a process where you deposited vaporized aluminium via a mask to create conductors on the substrate itself. By then the industry was favouring Silicon as the substrate. Robert Noyce worked on photo masking and designed, with others to make a step-and-repeat camera to make photomasks in quantity.

In the same plant Dr. Jean Hoerni was trying to improve the performance of recently developed "mesa" transistor fabrication technology. (A mesa transistor is a transistor that resembles the mesa geological formation in the American desert. Mesa transistors were built up later-by-layer - significant!)

Hoerni realised that you could render the layering process within the silicon substrate itself. You could insulate each element with P-N junctions and you could carry signals and power in and out with layers of aluminium conductors. Thus, all of the characteristics of the modern integrated circuit were in place and these fundamental elements of IC manufacture are with us today.

Acknowledgement

Much of the information in "Microchip Milestones" came from a wonderful (but very technical) book called Makers of the Microchip, A documentary history of Fairchild Semiconductor by Christophe Lécuyer and David C. Brock.

The MIT Press
Cambridge Mass. USA

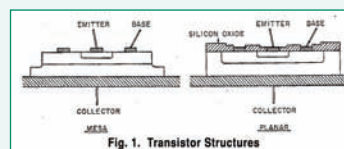


Fig. 1. Transistor Structures

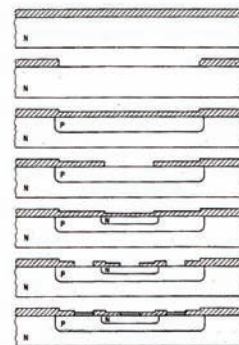


Fig. 2. Steps in Planar Transistor Fabrication

Illustration courtesy of
"Makers of the Microchip",
(details on left).

RELAYS

Universal LED Flasher Relays

Specifically designed to work with replacement low current LED indicator lights which may "hyper flash" when used with your cars standard flasher relay. This high frequency flashing will burn out the globe quicker. The minimum load is negligible (0.02A). Some cars will even display a burnt out bulb indicator even though it's working fine, this unit will remedy that issue.

- Nominal voltage: 12VDC
- Operating voltage: 11VDC-15VDC
- Flashing frequency: 90 times/minute +/-10%
- Silent operation
- Dimensions: 40(H) x 28(W) x 28(L)mm

UNIVERSAL 2-PIN LED FLASHER RELAY

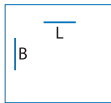
Switch current: 0.02A-10A
SY-4016

JAPANESE CAR 3-PIN LED FLASHER RELAY

Switch current: 0.02A-20A
SY-4018

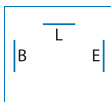


SY-4016



L = Load
B = 12V in

SY-4018



L = Load
B = 12V in
E = Ground



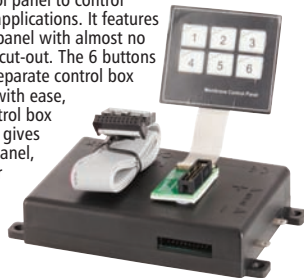
Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Pin	10A	SY-4016	\$14.95	\$13.35	\$11.70
3 Pin	20A	SY-4018	\$14.95	\$13.35	\$11.70

For our full range of Relays, refer to page 194

6 Way Membrane Switch Panel with Relay Box

An ultra compact 6-way 12VDC touch control panel to control devices in automotive, camping, or marine applications. It features an ultra thin and flexible membrane switch panel with almost no mounting depth requiring only a very small cut-out. The 6 buttons on the switch panel control 6 relays in the separate control box for switching on/off any connected devices with ease, with the switch panel connecting to the control box with an included 1m long ribbon cable. This gives you a completely waterproof (IP67) switch panel, with all the wiring taken care of behind your dash/panel, resulting in a neat and unobtrusive 6-way switch interface.

- IP67 rating on the switch panel
- Built-in resettable fuses



Specifications	SP-0900
Max current	10A per channel, 35A total
Touch Panel Dimensions	70(L) x 63(W) x 1(H)mm
Membrane Control Box Dimensions	135(L) x 90(W) x 33(H)mm



	Cat.	Qty 1+
Switch Panel with Relay Box	SP-0900	\$69.95

RELAY WIRING KIT

12VDC Universal Relay Wiring Kits

Universal relay wiring kits for fitting various 12V devices to your car, such as our LED driving lights. Each harness is complete ready to use with fused battery connections, horn relay, in-cabin toggle switch, and waterproof 2 pin connection with 2m of extra wires to connect to the 12V load you want to control. The cables are fully protected inside a loom tube. Three harnesses to choose from:

12VDC 7A – SINGLE – SY-4079

- Includes a short double adaptor lead so that you can fit two or more of these wiring harnesses and control them with the one switch
- Sold individually



SY-4079

12VDC 13.5A – DUAL – SY-4180

- Controls a pair of LED driving lights or devices up to 150W
- Sold as a pair

12VDC 22.5A – DUAL – SY-4182

- Controls a pair of LED driving lights up to 200W
- Sold as a pair



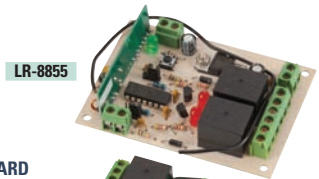
	Wiring	Cat.	Qty 1+	Qty 10+	Qty 25+
7A	Single	SY-4079	\$39.95	\$35.95	\$31.95
13.5A	Dual	SY-4180	\$59.95	\$53.95	\$47.95
22.5A	Dual	SY-4182	\$79.95	\$71.95	\$63.95

For a circuit to show you how to make an ordinary relay latch see page 191

Multi Channel Remote Control Relay Boards

Add remote control functions to a new project or existing installation with these handy remote control relay boards. Available with 2 or 4 channels, each output relay is controlled by a separate button on the key fob controller. Each channel can be set to momentary or latching mode allowing you to customise the setup to suit your application. Operating on the robust 433MHz band the key fob remotes work over distances up to 40m and feature rolling code transmitting for added security.

- Selectable momentary or latching mode for each channel
- Transmission frequency: 433MHz
- Transmission range: 40m max
- Operating Voltage: 12VDC
- Relay contact rating: 28VDC 10A max / 250VAC 5A max



LR-8855

2 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 50mA
 - Board dimensions: 85(L) x 61(W) x 20(H)mm
 - Remote dimensions: 51(L) x 34(W) x 13(D)mm
- Cat. LR-8855

SPARE 2 CHANNEL KEY FOB CONTROLLER

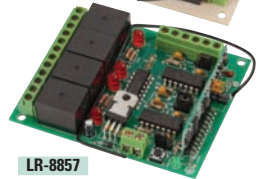
Cat. LR-8856

4 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 80mA
 - Board dimensions: 90(L) x 73(W) x 20(H)mm
 - Remote dimensions: 63(L) x 40(W) x 13(D)mm
- Cat. LR-8857

SPARE 4 CHANNEL KEY FOB CONTROLLER

Cat. LR-8858



LR-8857



LR-8856

LR-8858

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Channel RC Relay Board	LR-8855	\$49.95	\$44.95	\$39.95
2 Channel Keyfob	LR-8856	\$15.95	\$14.35	\$12.75
4 Channel RC Relay Board	LR-8857	\$59.95	\$53.95	\$47.90
4 Channel Keyfob	LR-8858	\$19.95	\$17.70	\$15.70

Wireless 4 Channel Relay Receiver (12V Nominal Separation)

This unit, which can be operated with the 2 x remotes (supplied), will control up to 4 x relays in Normally Closed or Normally Open configuration as either Momentary or Latched operation (the relays are built-in to the receiver). The relay contacts are rated at 5A at 14VDC. If higher voltage or higher power (or both) switching is needed, simply get these relays to operate a higher power relay. Strictly speaking for simple control applications, the LR-8824 is all you need.



Specifications	LR-8824
Power input	10 - 15VDC
Current draw	350mA max
Standby current	<10mA
Transmission distance	30m typical (300m+ max line of sight)
Transmission frequency	433.92MHz
Transmitter features	SAW locked, rolling-code, water-resistant.
Learning capacity	250 remotes per module.
Outputs	4 x NO/NC relay contacts individually selectable as momentary or latched
Relay contacts	5A max at 14VDC
Receiver dimensions	68(H) x 60(W) x 25(D)mm, Antenna is 150mm long when deployed

ADDITIONAL WIRELESS RELAY TRANSMITTER UNIT

This sophisticated addition is capable of controlling the LR-8824 with up to 4 control voltage inputs. You could, for example, have an input on channel 1, which would be from say a micro-switch connected to a window or a gate in a shed or barn.

The LR-8819 will transmit a signal (100m minimum, up to 400m line-of-sight) to the LR-8824 to raise an alarm. It will also accept USB type voltage signals etc. It will accept positive or negative voltage commands (it will operate without the remote controls). The LR-8819 expands the operational flexibility of the LR-8824 system enormously and is essential for fixed system monitoring.

- Unit measures 68(H) x 60(W) x 25(D)mm
 - Antenna is 150mm long when deployed.
- Cat. LR-8819



SPARE REMOTE CONTROLLERS FOR LR-8824

These units will operate the wireless 4 channel relay receiver. They are not required if you use the fixed transmitter LR-8819.

Cat. LR-8829



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless 4 Channel Relay Receiver	LR-8824	\$99.95	\$89.95	\$79.95
Additional Wireless Relay Transmitter	LR-8819	\$39.95	\$35.90	\$31.90
Spare Remote	LR-8829	\$24.95	\$22.35	\$19.70

CAR SECURITY

Steelmate Entry Level Car Alarm with Voice Function

An affordable car alarm that features voice feedback on alarm status and operational parameters such as open doors etc.

What you get:

- Electronic black box controller
- Shock sensor, Ignition cutout relay
- Speaker siren
- Wiring looms
- Bonnet pin switch
- Car charger for the remote controls
- Extra circuits for fuel and ignition cutout
- 2 x Code hopping remote control units, one with a built in torch!

Kit includes:

- Metallic water resistant 5-button transmitters
- Dedicated boot release button
- Voice warning (ON / OFF)
- Valet mode
- Anti-hijacking, emergency call & locating
- Emergency override

Also good for:

- Vans with expensive stuff in the back
- Large enclosed trailers



DIY



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Car Alarm	LA-9003	\$129.00	\$115.95	\$102.95
Spare Remote	LA-9004	\$37.95	\$33.95	\$30.45
Spare Remote Car Charger	LA-9021	\$9.95	\$8.75	\$7.75

CONTROL LOCKING

Slave Door Lock Actuator

Door lock actuator used on passenger doors. Durable, waterproof and dustproof with Japanese mechanics, and supplied with universal mounting hardware. Wiring not included.

- Japanese Mabuchi motor
- Original Nylon and POM
- PTC overload protection
- Life cycle: 100,000 times
- Push/Pull force: > 4.0 kg
- Input voltage: 9 - 16VDC



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
LR-8813		\$12.95	\$11.35	\$10.35

Master Door Lock Actuator

Door lock actuator for Driver's door. Includes microswitch output to activate power lock relay LR-8818. Durable, waterproof and dustproof with Japanese mechanics. Supplied with universal mounting hardware. Wiring not included.

- Japanese Mabuchi motor
- Original Nylon and POM
- PTC overload protection
- Life cycle: 100,000 times
- Push/Pull force: > 4.0 kg
- Input voltage: 9 - 16VDC



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
LR-8815		\$14.95	\$13.35	\$11.70

4 Door Power Lock Kit

Add that touch of luxury to your car with this low cost 4 door central locking kit, so when you unlock the drivers door the other three doors will also unlock. It can be connected to car alarms with a negative triggering locking output, or used with our LR-8839 remote controller for keyless entry.

- Supplied with 1 master, 3 slave actuators, control relay, hardware and wiring loom.



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Door Power Lock Kit	LR-8812	\$39.95	\$35.90	\$31.90

Remote Controlled Car Central Locking System

Upgrade to a remote keyless car entry with this system. On rainy or windy days where you need a quick entry, unlock your doors as you approach the car. The system is easy to install with 2 keyfob and comes with two remote keyfobs.



WARRANTY

SPARE REMOTE CONTROL

Spare Remote Control for LR-8839 Central Locking System. Supplied with one 12V battery (For replacement batteries use our SB-2422.)

	Cat.	Qty 1+	Qty 2+	Qty 4+
Centre Locking System	LR-8839	\$49.95	\$44.90	\$39.90
Spare Remote	LR-8837	\$19.95	\$17.70	\$15.70

4 Door Remote Controlled Central Locking Kit with Kill Switch

Lock and Unlock your car doors from a distance without having to fumble around with keys. Includes outputs to flash the indicators for visual confirmation, as well as outputs for sunroof and window closers (where fitted).

An additional security button can be installed to cut off the fuel pump to prevent the car being stolen.



Supplied with 1 master actuator, 3 slave actuators, and control relay, two remotes with batteries, kill switch, hardware and wiring loom.

- Working voltage: 9 - 16VDC
- Frequency: 433.92MHz

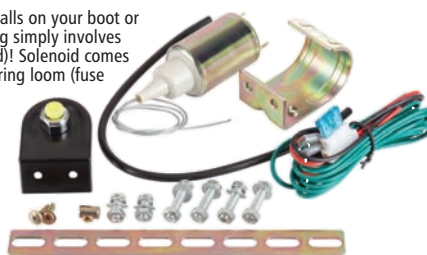


WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
LR-8842		\$89.95	\$80.95	\$71.95

Car Boot / Hatch Release

This great little gadget installs on your boot or hatch lock so that unlocking simply involves pressing a button (supplied)! Solenoid comes with mounting bracket, wiring loom (fuse included), dash mount pushbutton switch and installation instructions.



- Solenoid Unit (including bracket): 95(L) x 43(D) x 58(H)mm
- Switch (on L bracket): 50 (H) x 44(W) x 40(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
LR-8834		\$39.95	\$35.90	\$31.90

KEYFOBS / CONTROLLERS

KeyFob Learning Remote 250 - 450MHz

A wider frequency range that includes some automatic garage door openers. Will learn up to 4 different codes and make your life a little easier by letting you control all your alarms with just one fob. A typical situation could be using the same remote for your car, your partner's car and the automatic garage door with a spare button for the house alarm when you get it. Frequency: 250MHz to 450MHz.



- Supplied with A554 battery
- Not suitable for code hopping alarms



WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Keyfob Remote	LA-8992	\$45.00	\$40.45	\$35.95

TAMPER SWITCHES

Tamper (Pin) Style - 2 Pack

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel.

- Bullet connector termination

↑	Cat.	Qty 1+	Qty 4+	Qty 8+
Pack of 2	LE-8775	\$5.95	\$5.25	\$4.75

Metal Tamper (Pin) Style - 2 Pack

Especially good for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion in hostile environments. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.

Specifications	LE-8776
Length (main body)	38mm
Shaft diameter	7.75mm
Locking nut size	12mm
	Including plug & lug
	Fascia nut size
	Travel (max)
	70mm
	11mm
	13.5mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE-8776	\$7.95	\$6.95	\$6.25

Metal Fascia Inset Pin Switch - 2 Pack

Inset pin switch with plated metal fascia. Suitable for many cars as a replacement door switch. The sturdy plunger can be cut to required length. Termination via right angle 6.4mm spade lug.

Specifications	LE-8777
Fascia	34.5 x 16.5mm
Pin	27(L) x 8(dia)mm
Depth behind fascia	15mm (not inc lug & pin)
Overall depth	51mm
Travel (max)	8mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE-8777	\$7.95	\$6.95	\$6.25

Van Sliding Door Style

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions. Contacts are rated at a massive 20A @ 12V.

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A Each	LE-8779	\$18.95	\$16.95	\$14.95

STROBES

Waterproof LED Strobe Lights

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

- 12VDC operation.
- Measures: 70(Dia) x 45(H)mm

↑	Colour	Cat.	Qty 1+	Qty 4+	Qty 8+
	Blue	LA-5326	\$19.95	\$17.70	\$15.70
	Red	LA-5327	\$19.95	\$17.70	\$15.70
	Amber	LA-5328	\$19.95	\$17.70	\$15.70

12VDC LED Strobe Light with Magnetic Base for Cars

Designed to be mounted on to the roof for maximum visibility. Moulded curly cord with cigarette plug for power.

Note: For off-road use only.

- 12VDC
- 40 super bright, high intensity LEDs
- Cigarette lighter plug for power
- Heavy duty magnetic base for secure mount
- Dimensions: 95(H) x 130(Dia.)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	ST-3295	\$34.95	\$31.45	\$27.95

Dash Mount Flashing LED -12V

With a metal bezel and a very bright 5mm LED, this flasher is excellent as a fake car alarm. Installed on your dash, thieves can be led to believe that your car is alarmed - especially combined with our car alarm stickers (Cat. LA-5104).

Specifications	LA-5082
Bezel Dimensions	30(D) x 7(W)mm
Face Diameter	11mm
Operating Voltage	12V
Wire Lead Length	400mm

↑	Cat.	Qty 1+	Qty 10+	Qty 25+
	LA-5082	\$6.95	\$6.25	\$5.50

SIRENS

Waterproof Siren - 90dB

A waterproof siren suitable for harsh environments. Suitable for cars, boat and truck applications.

Specifications	LA-8901
Operating voltage	12V - 24VDC
Sound output	>90dB
Dust and waterproof rating	IP66
Termination	Spade lugs
Dimensions	50(L) x 40(Dia.) x 34.5(H)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8901	\$12.95	\$11.35	\$10.35

Mini Reverse Warning Siren 12/24VDC

Extremely easy to install on 12 or 24V vehicles. Beeps when power is applied, and features a mute function that you can connect to the parker lights to mute the siren at night time if desired.

Specifications	LA-8904
Operating voltage	9-30VDC
Current consumption	<200mA
Sound output	>90dB
Dust and water resistance rating	IP65
Termination	Fly leads
Mounting hole	6.5mm
Dimensions	55(Dia.) x 37.5(H)mm

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8904	\$9.95	\$8.75	\$7.75

Electronic Siren

Small sized siren. It's much easier to mount a small siren in a cramped engine bay!

Specifications	LA-8908
Operating voltage	12VDC
Sound output	125dB.
Power rating	20 watts
Current draw	1.3 Amp.
Dimensions	70(H) x 67(L) x 59(W)mm including brackets

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8908	\$19.95	\$17.95	\$15.95

Six-Tone Car Alarm Siren with Back-Up Battery

This compact siren has a rechargeable back-up battery pack mounted inside the unit, so if the wires are cut by a thief, the siren will sound and the only way to disable the unit is to turn it off with a key. Internal batteries are kept on trickle charge so they are always fully charged.

- Supplied with 2 keys.

Specifications	LA-8912
Power	20W
Voltage	12VDC
Impedance	10 ohm
Output	118dB.
Dimensions	100(L) x 61(W) x 57(D)mm including brackets.

↑	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8912	\$24.95	\$22.45	\$19.95

Waterproof Reversing Siren - 12V

Siren suitable for car, home or boat alarms. Features an ambient background level control which changes the volume between 75 and 97dB depending on the environmental noise, using the siren driver as a sense microphone to control the output sound level.

Specifications	LA-8903
Operating voltage	12-24VDC
Sound output	75 - 97dB
Dust and waterproof rating	IP66
Termination	Fly leads
Dimensions	101(W) x 72(H) x 42(D)mm including mounting bracket

↑	Cat.	Qty 1+
	LA-8903	\$29.95

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AUTO & OUTDOORS MARINE ACCESSORIES

MARINE TORCH

Floating LED Torch

A sturdy quality torch for your next camping trip or fishing adventure. Equipped with 3 ultra bright Osram Osolon LEDs, matched with a special reflector to produce a focused beam capable of lighting up long distances. The base features a fold-out hook for attaching to your bag or hanging in your tent. Both the base and lens end are o-ring sealed allowing the torch to float in water.

- Osram Osolon LEDs
- Requires 2 x D batteries
- Dimensions: 215(L) x 71(Dia.)mm



It Floats!

	Cat.	Qty 1+	Qty 5+	Qty 10+
Floating Torch	ST-3487	\$29.95	\$26.90	\$23.70

MARINE DISTRESS LIGHTS

Survivor Distress LED Light

A handy safety device that is a must when you are venturing out in open water. Unit is small, lightweight with a lanyard and clip for easy attachment to any life jacket or clothing. The bright LED distress light activates automatically when submerged in water.

- Water activated
- Lanyard and clip easy to be attached in any of life vest
- Waterproof construction
- Battery replaceable - battery Life: up to 100 hours



	Cat.	Qty 1+	Qty 5+	Qty 10+
Distress LED Light	ST-3230	\$6.95	\$6.25	\$5.50

4 LED Marine Strobe Light

Ideal for marine use to ensure your vessel stays visible at night or in poor light. Features a light sensor under the lens so it stays on at night and auto-switches off during the day. The base end has a standard marine mounting thread for attaching to a buoy or boating device. Also great for night road work, camping, hiking, mountain climbing etc.

- Requires 2 x D batteries
- Burn time: 360 hours
- Dimensions: 230(H) x 52(Dia.)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3232	\$14.95	\$13.45	\$11.95

Floating LED Strobe Light Flare

An essential safety device for boating enthusiasts or those who place themselves in situations of vast isolation. This LED flare is waterproof and will float vertically so the lens end sits above water. It also features a strong magnetic base so will sit securely on body of a car in the event of an emergency.

- Burn time: 72 hours
- Requires 2 x AAA batteries
- Dimensions: 158(H) x 36(Dia.)mm



NEW LOW PRICE

	Cat.	Qty 1+
LED Strobe	ST-3231	\$14.95

MARINE RELAY/SWITCH

6 Way Membrane Switch Panel with Relay Box

An ultra compact 6 way 12VDC touch control panel to control devices in automotive, camping, or marine applications. It features an ultra thin and flexible membrane switch panel with almost no mounting depth requiring only a very small cut-out. The 6 buttons on the switch panel control 6 relays in the separate control box for switching on/off any connected devices with ease, with the switch panel connecting to the control box with an included 1m long ribbon cable. This gives you a completely waterproof (IP67) switch panel, with all the wiring taken care of behind your dash/panel, resulting in a neat and unobtrusive 6 way switch interface.

- IP67 rating on the switch panel
- Built-in resettable fuses

1 YEAR WARRANTY



Specifications	SP-0900
Max current	10A per channel, 35A total
Touch Panel Dimensions	70(L) x 63(W) x 1(H)mm
Membrane Control Box Dimensions	135(L) x 90(W) x 33(H)mm

NEW LOW PRICE

	Cat.	Qty 1+
Switch Panel	SP-0900	\$69.95

FISH FINDER

Wi-Fi Fish Finder with Smartphone App

A small spherical device to help amateur fisherman find their targets. Simply connect it via Wi-Fi, load the Smartphone App, throw it into the water (tethered to a fishing line ideally), and the fish finder will transmit fish location and fish size data back to an Android or iOS equipped Smartphone/Tablet. In technical terms, the Wi-Fi transducer will pulse a sound wave outwards, the returned echoes are transmitted to the App. Water temperature readings are also viewable through the App which may help in boat positioning. Though this device can be tethered we recommend using it in lakes and other still bodies of water.

Wi-Fi fish finder App available for Android/iOS devices. Note: Only 5 devices can be registered to one fish finder and only one can be used at any time.



iPhone® not included



1 YEAR WARRANTY

Specifications	GE-4250
Wi-Fi range	20m
Sonar frequency	125kHz
Sonar coverage	90°
Depth capacity	0.6m-20m
Power	3.7V rechargeable lithium battery (included)
Running time	5 hours fully charged
Charger	5VDC/500mA USB charger supplied
Dimensions	67(Dia.)mm

	Cat.	Qty 1+
Wi-Fi Fish Finder	GE-4250	\$99.95

MARINE AUDIO

Naval Style Communications Speaker with Gymbal Mount

This small but powerful unit delivers clear voice from either VHF, 27MHz or even HF communications receivers. It features a no-nonsense naval style in a light grey.

- It is very close to waterproof, in that the speaker cone is Mylar, the bezel is gasketed and the cord entry is IP65.
- Don't let the small dimensions fool you - it is a full 4W rated unit.



NEW LOW PRICE

1 YEAR WARRANTY

Specifications	AS-3186
Power handling	2.25WRMS
Power Max	5W
Impedance	80hm
Freq range	320Hz - 4,500kHz
Sensitivity	88dB/m
Dimensions	66(L) x 66(W) x 55(H)mm
Weight	185g
2.2m cable terminated to a 3.5mm plug	
Bezel dimensions	65mm square, 55 deep

	Cat.	Qty 1+
Comms Speaker	AS-3186	\$19.95

Waterproof MP3 Player with Radio & Bluetooth® Technology

A feature packed, waterproof stereo for the boat to entertain you while you're enjoying your water sport or activity. It features an AM/FM radio, aux audio input to play the tracks from an iPod®, a USB port to play MP3 files from an MP3 player or Flash drive, or wirelessly streamed music from your Bluetooth® enabled Smartphone or Tablet.

- IPX6 waterproof
- Bluetooth® audio streaming
- Rear USB
- Play music on USB
- AM/FM digital receiver
- Rear Aux line in
- Display type: LCD
- Power output: MOSFET 4 x 25WRMS
- Zero standby current
- Backup memory
- Stainless steel trim ring
- Dimensions: 345(L) x 90(W)mm



3 YEAR WARRANTY

RESPONSE

	Cat.	Qty 1+	Qty 2+	Qty 4+
Waterproof MP3 Player	QM-3860	\$199.00	\$178.95	\$158.95

MARINE AUDIO (CONTINUED)

A WORD ABOUT JAYCAR RESPONSE BRAND AUDIO PRODUCTS

Jaycar has been selling direct-import audio products for almost 30 years. In that time we have sold tens of thousands of general, Hi-Fi and car sound speakers, Home Cinema products, MP3 players, and thousands of car and marine head units.

RESPONSE

use actually make a lot of the national brand names, but we are legally prevented from telling you who they are). When Jaycar negotiates with a factory, we specify what we think is useful to you and what is rubbish (like rainbow coloured lighting displays).

We have developed an expertise with specialty buying staff and long-term relationships with factories that we can trust. In these pages you will find products that are not national brand names (Many of the factories that we

In buying such products from us, you get the same (or better) warranties, but the bonus sensible-specification products from a firm with a strong engineering background.

In-Dash Marine AM/FM Radio with MP3 Player

An attractive marine radio perfect for your boat but can be used for automotive purposes. In addition to standard AM/FM radio the front panel includes USB & SD card slots which allow playback of MP3s. There's also a 3.5mm auxiliary port so you can connect an iPod®, headphones, or Smartphone for playing back music. The unit can be controlled with the infrared remote or front panel interface. For audio tinkerers, a myriad of settings are available including bass, treble, balance, and fade settings. There are also rock, pop, and classical equalisation pre-sets to suit your taste in music. Installation is straightforward, just connect via the supplied 14pin plug, all speaker cables are labelled to streamline the install. The USB, SD card and AUX sockets all come with splashproof silicone covers.

- MP3/USB/SD Player
- Rust-resistant chassis
- ISO/DIN mountable
- Electric Detachable Panel
- UV-resistant faceplate and trim ring
- 3.5mm front panel aux input
- USB/SD front panel input
- Wireless infrared remote
- Power: 8.25WRMS - 8 Ohm x 4 / 13WRMS - 4 Ohm x 4
- Dimensions: 189(L) x 117(W) x 57(H)mm

QM-3815



Waterproof cover also available - QM-3819.

Can be used for automotive purposes



QM-3819

RESPONSE



	Cat.	Qty 1+	Qty 2+	Qty 4+
Marine Radio	QM-3815	\$99.95	\$89.95	\$79.95
Waterproof Cover	QM-3819	\$14.95	\$13.45	\$11.95

5" & 6.5" Marine Coaxial Speakers

A pair of marine worthy speakers designed to withstand the demands of ocean use and provide excellent audio quality in your boat. Both models feature high salt and UV resistance and are fully splash proof thanks to the special indented design.

Specifications	CS-2410	CS-2412
Frequency	80-20KHz	65-20KHz
Sensitivity	88dB/W/M	89dB/W/M
Max Power	100W	120W
Magnet	5.3 oz	10oz
Voice Coil	25mm	25mm
Impedance	4 ohms	4 ohms
Woofer	Injection Cone	Injection Cone
Midrange and Tweeter	30mm Mylar Dome Tweeter	35mm Mylar Dome Tweeter
Dimensions:	A=150mm, B=135mm, C=111mm, D=45mm	A=180mm, B=164mm, C=128mm, D=60mm
See page 246 for chart		



	Cat.	Qty 1+	Qty 4+	Qty 10+
5" Pair	CS-2410	\$34.95	\$31.45	\$27.90
6.5" Pair	CS-2412	\$44.95	\$40.45	\$35.90

RELATED PRODUCTS

Marine Radio & Speaker Packages

More specifications on each product is shown above

Package #1

- Combines our Marine Radio (QM-5815) with our 5" Marine Speakers. (CS-2410)



RESPONSE

Package #2

- Combines our Marine Radio (QM-5815) and our 6.5" Marine Speakers. (CS-2412)



RESPONSE

	Cat.	Qty 1+		Cat.	Qty 1+
Marine Radio & 5" Speakers	QM-3816	\$109.00	Marine Radio & 6.5" Speakers	QM-3817	\$119.00

BOAT ANTIFOULING SYSTEM

This product is based on the collaborative design between us and "Silicon Chip" magazine. (See the September 2010 issue of this magazine for a complete preamble and technical description of electronic/ultrasonic antifouling technology.)

The product was originally only available in DIY kit form which limited availability to experienced home constructors. Even so the kit has been very popular. The scope of the original design has been expanded to include larger vessels. We also have completely manufactured the transducers & all electronics. It is now just a straight forward installation of a built and warranted product.

GENERAL

There seems to be a growing consensus that ultrasonic antifouling systems appear to work very well. With such a system you should be able to avoid the yearly task of slipping the boat and repainting the hull with what has to be a pretty nasty chemical goo called antifouling paint. We estimate that ultrasonic antifouling should reduce this task up to 90%. You will still probably need to slip your boat occasionally to monitor corrosion, replace sacrificial anodes, etc.

WHAT YOU GET WITH THIS PRODUCT

The two and four channel units are almost identical. You get a control box which contains the electronics. You get a wiring loom which includes plenty of cable to locate the transducers. You will also get a comprehensive installation & instruction manual. You will need to do your own wiring for the +12VDC power source. This means you will need to provide a switch, live fuse & 10A rated marine grade wire.

TECHNICAL DESCRIPTION

The central component is a main PCB which consists of a specially programmed micro processor which generates the special frequencies which seriously deter growth of the various organisms that choose to use your boat as a home. The microprocessor and associated circuit has a special low battery detect feature. If the battery powering this unit falls below a threshold voltage the unit turns itself off. This prevents the battery becoming totally flat. Flat batteries quickly sulphate up and are generally a write-off after that. It is therefore important to have a regular battery charge on your boat. (The best of course is permanent connection to shore power or solar or wind turbine alternator boost.) The central circuit drives up to four ultrasonic transducers which are firmly attached to the hull. Generally two transducers will do for a boat up to 12m and four for a boat up to 22m.

The photographs shown below are from a customer's 22ft boat using the kit version of the antifouling system shown above (except he was only using "ONE" transducer). In the customer's post on a popular yachting blog, he explains that the photos were taken eleven months after the hull was cleaned of hard and heavy growth, and twenty one months after the boat's last antifouling. There was no hard growth, and the soft growth that is visible in the photographs could be easily removed with a soft nailbrush! Overall the customer was extremely happy with the result and believes the system has already paid for itself. If you want to read the article for yourself visit <http://bit.ly/ybhreview>



Photos courtesy of Dr Parmegiani

"The result was so good, I nearly cried." These photos show the hard growth (or lack of) nearly 2 years after the boats last antifouling.

Two Antifouling models available:

DUAL VERSION

Suits boats up to 12 metres

YS-5600

QUAD VERSION

Suits boats up to 22 metres

YS-5602

	Cat.	Qty 1 +	Qty 5 +
Dual Version	YS-5600	\$999.00	\$899.00
Quad Version	YS-5602	\$1329.00	\$1199.00

Full installation, intro video & user manuals available on website.



VIDEO



WARRANTY

GADGETS

Action Camera	519
Bathroom Gadgets	525
Boats - Remote Control	517
Candles	524
Cars - Remote Control	515
Clocks	524
Desk Lamps	523
Fun & Games	522
Health & Fitness	526
Kitchen Gadgets	525
Office	523
Planes - Remote Control	517
Quadcopter - Remote Control	516
Selfie Stick	305
Stopwatches	526

Background image sent to us by John who shops at our Jaycar Belconnen store

"This a project my kids and I have been working on since 1987... It is nearly there, it just needs some 3D printed bits and we are good to go"

MINI RC CARS

Remote Controlled Car In a Can 1:58

An ordinary looking soft drink can, but contained within is a little remote control car! These highly detailed 1:58 scale sports cars feature working LED headlights and red reverse lights, and come with 4 tiny red witches hats for refining your driving skills or for simply making mini crashes more dramatic. The car, remote control and witches hats all fit snugly inside the can. The cars are recharged by plugging into the remote control.

8 models to choose from with varying car designs and colours.



Specifications	GT-3596
Remote requires	2 x AA batteries
Charge time	5 minutes
Remote control	27MHz and 40MHz
Suitable for ages	3+
Car dimensions	75(W) x 45(W) x 20(H)mm Approx

DRIVER SKILL: BEGINNER

	Cat.	Qty 1+	Qty 3+
	GT-3596	\$19.95	\$17.95

1:43 Scale Mini Licensed Remote Controlled Car

Own your very own sports car without breaking the bank. Officially licensed these RC cars boast an astonishing level of detail when compared to the real thing, with working headlights and tail lights. They come in a showroom like display case, tucked inside the same case is a steering wheel style remote with onboard charging, so you can start racing straight away.

- Responsive headlights and tail lights
- 4 x AA batteries required for remote
- Car dimensions: 110(L) x 45(W) x 28(H)mm

6 models available:

- Ford Mustang (27MHz)
- Hummer H2 (27MHz)
- Nissan GT-R (27MHz)
- Nissan 370Z (40MHz)
- Lamborghini LP670 (40MHz)
- Lamborghini LP560 (40MHz)



	Cat.	Qty 1+	Qty 3+
	GT-3594	\$29.95	\$26.95

QUADCOPTERS



Nano Size Remote Controlled Quadcopter with Flip Control

A tiny little quadcopter able to perform amazing aerial stunts.

Features the rock solid mid-air stability you would expect from a large quadcopter but can drop and flip at high speeds with the flick of a switch on the remote.

Perfect for indoor use.



Specifications	GT-3950
Channels	4
Axis	6
Batteries	Remote requires 2 x AA
Flight time	6-7 minutes
Charge time	30 minutes
Charges off remote	No
Charges off PSU	No
Charges off USB	Yes
Transmitter	2.4GHz
Control distance	40m
Included Spare Parts	4 x Rotor blades
Recommended ages	8+
Dimensions	66(L) x 66(W) x 25(H)mm

Box Contents:
1 x Quadcopter
1 x Remote Control
1 x Rechargeable Battery
4 x Spare Blades
1 x USB Charging Cable

NIMBLE

PILOT SKILL: BEGINNER

↑	Cat.	Qty 1+	Qty 3+
Nano Quadcopter	GT-3950	\$49.95	\$44.90

4 Channel Remote Control Quadcopter

Explore the skies with the Raven 4 Channel Remote Control Quadcopter. It offers beginner & professional flight modes, a 6 axis gyro for extra stability, up to 8 minutes of flight time and a 2.4GHz remote control.

- 6 axis gyro
- Hover function & 360 flips
- Switchable flight modes (beginner & professional)
- Colourful LED lights



Specifications	GT-4150
Channels	4
Transmission	2.4GHz
Remote Batteries	Remote requires 4 x AA
Chopper Battery	LiPo 3.7V 750mA
Flight time	8 min
Charge time	60 minutes
Charges off remote	No
Gyroscope	6 axis
Charges off PSU	No
Charges off USB	Yes
Control distance	100m
Recommended ages	14+
Dimensions:	310 x 310 x 90mm

Box Contents:
1 x Quadcopter
1 x Remote Control
4 x Spare Blades
1 x Li-Po Battery
1 x USB Charger Lead
1 x Screwdriver

RAVEN

PILOT SKILL: INTERMEDIATE

↑	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-4150	\$94.95	\$85.45
Spare Parts		Qty 1+	Qty 3+
Li-ion battery	NEW GT-4151	\$19.95	\$17.95



4 Channel Mini Quadcopter with Flip Control & 720p HD Camera

One of the smallest quadcopter on the market with a 720p HD camera onboard. It is incredibly stable, precise and agile with its 6 axis gyroscope and 4 channel controls, making it suitable for both indoor and outdoor flights. It even has strobing lights for night missions.

Combining all these features with its portability means you can take fun aerial videos anywhere you go. The quadcopter is even capable of doing 360° flip stunts to impress any crowd.



Specifications	GT-4110
Channels	4
Transmitter	2.4GHz
Drone Battery	LiPo rechargeable
Charges off USB	Yes
Remote Control Battery	Requires 4 x AAA
Flight time	6 min
Charge time	45 minutes
Memory Card Slot	microSD
Recommended for ages	14+
Dimensions	130(L) x 130(W) x 35(H)mm

Box Contents:
1 x Quadcopter with Camera
1 x Remote Control
1 x Rechargeable Battery
4 x Spare Blades
1 x 2GB microSD Card & Card reader
1 x USB Charging Cable

HORNET

PILOT SKILL: INTERMEDIATE

↑	Cat.	Qty 1+	Qty 3+
Quadcopter & Camera	GT-4110	\$119.00	\$106.95
Spare Parts		Qty 1+	Qty 3+
4 Piece Rotor Set	GT-4111	\$9.95	\$8.75
Reverse Motor	GT-4112	\$9.95	\$8.75
Li-ion Battery	GT-4113	\$9.95	\$8.75
Motor	GT-4114	\$9.95	\$8.75

4 Ch RC Quadcopter with 720p Camera

This quadcopter has it all, manoeuvrability, stability, power and HD video camera! Breathtaking manoeuvrability is achieved through the 4 channel controls and 6 axis gyroscope, allowing stunts like 360° unlimited mid-air flips. A set of 4 powerful motors coupled with 4 large rotors maintains stability when needed in harsh outdoor environments and also provides the thrust when you want to tear through the atmosphere.

Taking advantage of all these amazing capabilities, the quadcopter now comes with a 720p HD video recorder for some seriously stunning aerial views.



Specifications	GT-4100
Channels	4
Transmitter	2.4GHz
Drone Battery	LiPo rechargeable
Remote Control Battery	Requires 6 x AA
Flight time	6-9 min
Charge time	60-90 mins
Memory Card Slot	microSD
Recommended for ages	14+
Dimensions	340(L) x 340(W) x 90(H)mm

Box Contents:
1 x Quadcopter with Camera
1 x Remote Control
1 x Rechargeable Battery
4 x Spare Blades
1 x 2GB microSD Card & Reader
1 x Charging Cable

↑	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-4100	\$149.00	\$133.95
Spare Parts		Qty 1+	Qty 3+
4 Piece Rotor Set	GT-4101	\$9.95	\$8.75
Reverse Motor	GT-4102	\$24.95	\$22.50
Li-ion Battery	GT-4103	\$19.95	\$17.95
Turn Motor	GT-4104	\$24.95	\$22.50

HARRIER

PILOT SKILL: ADVANCED

QUADCOPTERS (CONTINUED)



VIDEO



Breakthrough Price!

4 Channel RC Quadcopter with Real-Time FPV

Features a FPV (First Person View) Camera & screen on the 2.4GHz remote control, so you can watch what your camera is viewing in real-time. Has beginner and professional flight modes, a 6 axis gyro for extra stability & up to 8 minutes of flight time. Also features hover function & headless mode.

- 6 axis gyro - 360 flips
- Switchable flight modes (beginner and professional)
- 2MP HD Camera with live image transmission to your First Person View LCD Display (on the remote control)

Box Contents:

- 1 x Quadcopter
- 1 x FPV screen
- 1 x Li-Po battery
- 1 x 2GB microSD card with Card reader
- 1 x Remote Control
- 4 x spare blades
- 1 x USB battery charger

Specifications	GT-4160
Channels	4
Transmitter	2.4GHz (Screen 5.8GHz)
Drone Battery	Li-Po rechargeable
Remote Control Battery	Requires 4 x AA Batteries
Flight Time	8 min
Charge Time	100 min
Memory Card Slot	microSD (2GB card included)
Control Distance	Up to 100m
Recommended for ages	14+
Dimensions	400(L) x 400(W)mm



HAWKEYE
PILOT SKILL: INTERMEDIATE

	Cat.	Qty 1+	Qty 3+
Quadcopter with Camera & FPV	GT-4160	\$299.00	\$269.00
Spare Parts		Qty 1+	Qty 3+
Li-ion battery	NEW GT-4151	\$19.95	\$17.95



VIDEO



4 Channel Remote Controlled Level Stunt Plane

- 450mm wingspan
- 4 channel for more control

Take to the skies in this RC stunt plane. Capable of a range of aerobatics such as flips, loops, barrel rolls and magnificent high altitude stalls. Comes with two rechargeable Li-po batteries so you can fly for longer. The remote control allows aileron and direction trim, and will display battery level on the LCD. The packaging says it's suitable for ages 8 and up, but we suggest it's more suitable for a teenager or older.

Note: We highly recommend flying this plane in a wide open space, preferably on grass. Without adequate runway or flying space the fun can end quickly. Li-Po batteries can be recharged from USB port with supplied charging dock.

Specifications	GT-4050
Channels	4
Transmitter	2.4GHz
Plane Battery	2 x 3.7V 130mAh Li-po batteries
Batteries	Remote requires 6 x AA batteries
Flight time	Approx 7 minutes per battery
Charge time	Approx 45 minutes
Charges off USB	Yes
Control distance	100m
Included Spare parts	Propeller
Recommended for ages	14+
Dimensions	450(Wingspan) x 355(L)mm



Spare parts listed on the following page.



FALCON
PILOT SKILL: EXTREME

	Cat.	Qty 1+	Qty 3+
4 Channel Stunt Plane	GT-4050	\$119.00	\$106.95
Spare Parts for GT-4050			
See next page for spare parts			



VIDEO



GT-4130

3 Channel Remote Controlled Cessna 182 Stunt Plane

- 500mm wingspan
- 3 Channel

Modelled after the famous Cessna 182 Skylane, this 3 channel aircraft is easy, efficient and fun to fly. EPP composite material is used to achieve light weight, extra flexibility and strong resistance to crashes; 3 coreless motors also combines together to give excellent power. At a super long flight time of 25 minutes and a control distance of up to 200m, it is endless joy to see this classic back in the sky doing the likes 360° flips or spiral loops.

Specifications	GT-4130
Channels	3
Transmitter	2.4GHz
Batteries	Remote requires 4 x AA
Flight time	about 25 minutes
Charging time	40 - 60 minutes
Control distance	200m
Recommended for ages	14+
Dimensions	500(Wingspan) x 393(L) x 192(H)mm



PILOT SKILL: INTERMEDIATE

	Cat.	Qty 1+	Qty 3+
3 Channel Stunt Plane	GT-4130	\$119.00	\$106.95

See page 518 and our website for our comprehensive range of spare parts for current & superseded helicopters & RC cars.



RC BOAT



VIDEO

Mini Remote Controlled Racing Boat

A beautifully crafted RC race boat with an insanely powerful little motor. Features a handy self-righting function so you if you capsize it accidentally, just pull the throttle and it will flip back upright so you can get back to racing. It also means you can just throw the boat into the water, hit the throttle then watch it roar off. The hydrodynamic design allows the hull to cut through the chop with ease. You can move forwards, backwards, and swiftly turn left or right. Not recommended for salt water.



- Suitable for ponds, lakes, swimming pools, and calm rivers
- 2.4GHz remote control with an effective range of up to 100m
- Professional large torsion propeller
- Excellent craftsmanship

- Box contents:
- 1 x Boat
 - 1 x Spare propeller
 - 1 x Battery
 - 1 x Bow protector
 - 1 x Remote
 - 1 x Boat stand
 - 1 x Battery charger

Specifications	GT-3615
Run time	9 minutes
Charge time	3.5 hours
Controller requires	6 x AA batteries
Recommended for ages	8+
Dimensions	340(L) x 90(W) x 70(H)mm



CHASER
DRIVER SKILL: BEGINNER

	Cat.	Qty 1+	Qty 3+
Mini RC Racing Boat	GT-3615	\$84.95	\$76.45
Spare Parts for GT-3615			
Rudder, Pipe and Propeller	GT-3616	\$9.95	\$8.75

SPARE PARTS FOR GT-405 STUNT PLANE

Spare Parts for GT-4050	Cat.	Qty 1 +	Qty 3 +
Upper and Lower Fuselage	GT-4051	\$14.95	\$13.45
Wing and Aileron Rudder Rod	GT-4052	\$14.95	\$13.45
Horizontal Tail Cover and Rudder	GT-4053	\$9.95	\$8.75
Landing Gear and Mount	GT-4055	\$4.95	\$4.45
Motor Seat Set and Blade	GT-4057	\$4.95	\$4.45
Li-Po Battery	GT-4058	\$9.95	\$8.75

SPARE PARTS FOR SUPERSEDED RC GEAR

Spare Parts for GT-3350 & GT-3380	Cat.	Qty 1 +
Balance Bar & Connecting Buckles	GT-3702	\$1.95
Frame/Shaft/Blade Grip	GT-3704	\$2.95



Spare Parts for GT-3382	Cat.	Qty 1 +
Blade Grip & Inner Shaft	GT-3729	\$1.95

Spare Parts for GT-3386	Cat.	Qty 1 +
Blade Set Main A+B with 3 Rotors	GT-3387	\$2.95

Spare Parts for GT-3430	Cat.	Qty 1 +
Rotor Blade & Tail Set	GT-3431	\$2.95

Spare Parts for GT-3490	Cat.	Qty 1 +
Main A & B Gear Set	GT-3492	\$2.95

Spare Parts for GT-3895	Cat.	Qty 1 +	Qty 3 +
Rotor Set 4 Front & Reverse	GT-3896	\$9.95	\$8.75
Foam Body & Main Frame	GT-3897	\$29.95	\$26.95
Rotor Arm and Bushes	GT-3898	\$9.95	\$8.75

Spare Parts to Suit GT-4060	Cat.	Qty 1 +	Qty 3 +
Spare Battery to Suit	GT-4061	\$49.95	\$44.95

Spare Parts for GT-3530	Cat.	Qty 1 +
Frame + Shaft + Blade Grip	GT-3535	\$2.95

Spare Parts for GT-3562	Cat.	Qty 1 +
Main Blade A+B Tail Set	GT-3556	\$2.95
Balance Bar, Buckle & Blade Set	GT-3558	\$2.95

Spare Part for GT-3860	Cat.	Qty 1 +
Motor	GT-3862	\$5.95

Spare Parts for GT-3360	Cat.	Qty 1 +
Reverse Motor Assembly	GT-3864	\$5.95
Motor Assembly Shaft, Orange Left	GT-3865	\$5.95
Motor Assembly Shaft, Orange Right	GT-3866	\$5.95

Spare Parts for GT-3820	Cat.	Qty 1 +
Spare Rotors A+B Pk.4 Set	GT-3821	\$9.95

Spare Parts for GT-3810	Cat.	Qty 1 +
Main Gear Set	GT-3812	\$9.95

Spare Parts for GT-3660	Cat.	Qty 1 +	Qty 3 +
Reverse Motor Assembly	GT-3864	\$5.95	\$5.50
Motor Assembly Shaft, Orange Left	GT-3865	\$5.95	\$5.50
Motor Assembly Shaft, Orange Right	GT-3866	\$5.95	\$5.50

Spare Parts for GT-4040	Cat.	Qty 1 +	Qty 3 +
Top Body Cover	GT-4031	\$39.95	\$35.90
Lower Body Cover	GT-4032	\$49.95	\$44.90
Horse Stand	GT-4033	\$9.95	\$8.75
Stand with Magnetic Compass	GT-4034	\$34.95	\$31.45
Co-Rotation Motor	GT-4037	\$49.95	\$44.90
Spare Reverse Motor	GT-4038	\$49.95	\$44.90

Spare Parts for GT-3565	Cat.	Qty 1 +	Qty 3 +
Blade Set Main A+B Tail	GT-3566	\$9.95	\$8.75
Balance Bar, Buckle & Blade Grip	GT-3567	\$9.95	\$8.75
A+B Gear Set	GT-3568	\$6.95	\$6.25

Spare Parts for GT-4120	Cat.	Qty 1 +	Qty 3 +
Lithium Rechargeable Battery	GT-4121	\$39.95	\$35.90
Rudder, Pipe and Propeller	GT-4122	\$14.95	\$13.45

Spare Parts for GT-3980/GT-3990	Cat.	Qty 1 +	Qty 3 +
DC Motor to suit GT-3980 and GT-3990	GT-3983	\$19.95	\$17.95
Receiver PCB for GT-3980 + GT-3990	GT-3984	\$24.95	\$22.50
Front Control Arm GT-3980+GT-3990	GT-3985	\$9.95	\$8.75

Spare Parts for GT-3786/GT-3788	Cat.	Qty 1 +	Qty 3 +
Receiver PCB for GT-3786	GT-3922	\$24.95	\$22.35
Receiver PCB for GT-3788	GT-3942	\$24.95	\$22.35
DC Motor for GT-3786	GT-3944	\$24.95	\$22.50
Servo for GT-3786/GT-3788	GT-3943	\$12.95	\$11.35

QUADCOPTER ACTION CAMERA MOUNTS

Brushless Gymbal Action Camera Bracket for GoPro® Hero™ 3

Gymbal mount your GoPro® Hero™ 3 to our superseded GT-4040 Professional Quadcopter. With a bit of creativity, it could also be mounted to any number of things such as a motorbike helmet, skateboard, RC plane. As long as you can give it enough power. The gymbal will keep the camera steady and focused at the fixed angle regardless of which way the quad is leaning (within certain angular limits of course). Features silicone shock absorbers that drastically reduce vibration on the camera. No more shaky videos. Now you can take own smooth documentary style shots.



Suitable for aspiring directors, skateboarders, or even people involved in search and rescue to help review deployment procedures.

IMPORTANT...

Only compatible with GoPro® Hero™ 3.
Note: camera not included.

Note: Product might vary slightly from the one shown

	Cat.	Qty 1 +	Qty 3 +
Gymbal Action Camera Bracket	GT-4044	\$249.00	\$225.00

Action Camera Mount Bracket to Suit GT-4040

Mount your action camera to our superseded Professional Quadcopter (GT-4040) and capture every second of flight.

Suitable for use with:
• All models of GoPro®

Camera not included



	Cat.	Qty 1 +	Qty 3 +
	GT-4042	\$39.95	\$35.90

ADD-ON MODULE FOR GT-3810/3820/3895

Add-on module for superseded helicopter models GT-3810, GT-3820 & GT-3895.

Bubble Blower Module

Allows you to release a flurry of bubbles as you fly.



	Cat.	Qty 1 +
Bubble Blower	GT-3832	\$9.95



Workbench sent to us by: Patrick - Jaycar Store: Reynella

This is my aircraft hangar - I have 4 ultralight aircraft two flying and two under rebuild, kids bikes and buggy, VW Combi rebuild, kitchen area and lots of storage.

Everything gets done in here, from building aircraft, fixing things and making all kinds of things for my wife, kids and friends.

For more details, visit: www.jaycar.com.au/workbench

ACTION CAMERA COMPARISON GUIDE

Use our selection guide to help choose...

	QC-8091	QC-8028	QC-8093	QC-8095
Resolution	Up to 1080p @ 30fps	Up to 1080p @ 60fps	Up to 1440p @ 30fps	Up to 4K @ 24fps
Image Resolution	5MP	8MP	8MP	12MP
Movie Compression	MOV (H.264)	MOV (H.264)	MOV (H.264)	MOV (H.264)
Photo Compression	JPEG	JPEG	JPEG	JPEG
Lens Type / Angle	120°	140°	170°	170°
Max Storage (not included)	up to 32GB microSD	32GB Class 10 microSD	32GB Class 10 microSD	64GB Class 10 microSD
Battery	3.7V, 1000mAh	3.8V, 1200mAh	3.7V 100mAh Li-ion	3.7V 100mAh Li-ion
Battery Life	up to 80 mins	110mins (1080p), 60 mins (1080p with Wi-Fi)	up to 110 mins, 60 mins (Wi-Fi)	up to 110 mins, 60 mins (Wi-Fi)
Dimensions - W x H x Dmm	64 x 44 x 25	59 x 44 x 24	59 x 44 x 24	59 x 44 x 24
Page	519	519	520	520

ALMOST DISPOSABLE ACTION CAMERA - 1080p

The First Almost "Disposable" Action Camera?

You see Action Cameras in use everywhere these days – on the back of wild animals, on the outside of planes and race cars, on precipitous ski-runs, etc. The applications are almost limitless except for one thing - Action Cameras are expensive and its pretty disastrous if the camera is damaged or destroyed in the filming process. Now you can make a judgement on that risky video shot by using a low-cost Action Camera option. Its very unlikely that the micro-SD card will be damaged, so you can rescue the event - aircraft black box style - with the hopefully spectacular footage intact!

The camera still has the high performance of all but the very best expensive models. It will even add an extra dimension to your outdoor production by having an extra camera viewpoint you otherwise would not have been able to afford. This is a price breakthrough and may not last if the dollar drops, so grab one or two now! The QC-8091 is compatible with the rest of our range of Action Camera products and accessories shown elsewhere on these pages.

The above comparison chart has quick reference technical data. For full specification review see online at jaycar.com.au

Box Contents:

- Waterproof Case
- Suction Cup Mount
- Helmet Mount
- USB Charging Cable

- Remote Control
- Handle Bar Mount
- Surfboard Mount

Note: Product may vary to one shown



1 YEAR
WARRANTY
Due September

	Cat.	Qty 1+	Qty 4+	Qty 10+
1080p Action Camera with LCD	QC-8091	\$99.95	\$89.95	\$79.95

WI-FI ACTION CAMERA WITH LCD - 1080p

This action camera has it all: 1080p full HD at 60 FPS, Wi-Fi connectivity with free downloadable app for both Android and iOS® to record and review footage. Complete with a 2" LCD screen to monitor the recordings, and also a waterproof case plus a variety of mounting options to suit your type of adventure. The 30 frame per second full HD recording makes video smoother while the 60fps at 1080p is great for taking stunning slow motions. The superior image quality of this camera is also matched by its versatility in wireless streaming and also the onboard LCD screen. Your Smartphone can also be used as a remote control for creative shootings and live monitoring.

Box Contents:

- Waterproof case
- Shield case
- Handlebar mount
- Suction cup mount
- Remote control
- Car charger
- USB cable



View live footage
on a Smartphone
Smartphone not included



1 YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Wi-Fi Action Camera	QC-8028	\$229.00	\$205.95	\$182.95
Spare Li-ion Battery to Suit	QC-8029	\$17.95	\$16.15	\$14.35

GADGETS & GIZMOS

ACTION CAMERA & ACCESSORIES

WI-FI ACTION CAMERA WITH LCD - 1440p

Capture the action with our new Wi-Fi sports action camera. Able to capture high resolution 1440p videos at 30 frames per second which can play back on your smartphone or directly on the camera. Features an in-built gyroscope to keep the image upright if the camera isn't and has a time-lapse function for capturing footage over long periods. The image-burst mode, featured in many modern smartphones, will capture a sequence of images over a short period, allowing you to pick and choose the best.

- 2.0" LCD
- Sony image sensor

For specifications see the table on page 519 for quick reference technical data. For full specification review see online at jaycar.com.au

Box Contents:

- Waterproof Case
- Wrist Remote Control
- Handle Bar Mount
- Surfboard Mount
- Car Charger
- Shield Case
- Suction Cup Mount
- Helmet Mount
- USB Charging Cable

Note: Product may vary to one shown



NEW
2016



Wi Fi
Enabled



WARRANTY
Due September

SONY
SENSOR INSIDE

	Cat.	Qty 1+	Qty 4+	Qty 10+
1440p Wi-Fi Action Camera with LCD	QC-8093	\$299.00	\$269.00	\$239.00

PROFESSIONAL WI-FI ACTION CAMERA WITH LCD - 4x2K

Capture the action with our new Wi-Fi sports action camera. Able to capture high resolution up to 4x2K videos at 24 frames per second which can play back on your smartphone or directly on the camera. Features an in-built gyroscope to keep the image upright if the camera isn't and has a time-lapse function for capturing footage over long periods. The image-burst mode, featured in many modern smartphones, will capture a sequence of images over a short period, allowing you to pick and choose the best.

- 2.4" LCD Screen
- Sony Image Sensor
- Time Lapse function
- HDMI output for connection to TV
- Image Burst Capture
- 30m Waterproof Case
- In-built Gyroscope for auto image stabilisation
- Has quality all glass lens set

For specifications see the table on page 519 for quick reference technical data. For full specification review see online at jaycar.com.au

Box Contents:

- Waterproof Case
- Wrist Remote Control
- Handle Bar Mount
- Surfboard Mount
- Car Charger
- Shield Case
- Suction Cup Mount
- Helmet Mount
- USB Charging Cable

Note: Product may vary to one shown



NEW
2016



Wi Fi
Enabled



WARRANTY
Due September

SONY
SENSOR INSIDE

	Cat.	Qty 1+	Qty 4+	Qty 10+
4x2K Professional Wi-Fi Action Camera	QC-8095	\$399.00	\$359.00	\$319.00

ACTION CAMERA ACCESSORIES

Carry Case for Action Cameras

A foam lined protective carry case to suit our range of action cameras. The foam inserts are easily removed to accommodate your camera and all of its accessories. It even has a mesh lining in the lid to hold your cables and leads.

- Dimensions: 220 x 175 x 65mm

Note: Accessories not included

GoPro® users - see page 518 for our nifty camera bracket to mount a GoPro® on our Quadcopters!!



NEW
2016

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8059	\$19.95	\$17.95	\$15.95

Divers Waterproof Case 40m+

This product is rated to 60m depth so we're saying 40 metres.

Bonus! With each case we include 2 packets of anti-fog moisture-absorbing sachets. You don't need to fog up when you are 100 feet down!

Suits our QC-8093 & QC-8095



NEW
2016



	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8094	\$39.95	\$35.95	\$31.95

Anti Fog Sachet

You simply pop one of these sachets inside the camera case in a position where it will not block the lens. The desiccating (moisture absorbing) non-poisonous chemical keeps away any moisture which might otherwise fog-up the camera lens.



Suitable for all Jaycar Action Cameras, GoPro® Hero™ 4/3/2/1 and other sport cameras.

- Pack consists of 12 sachets.
- Re-usable.

Note: Camera not included

NEW
2016

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8076	\$4.95	\$4.45	\$3.95

Red Filter Adaptor for Action Cameras

Red filters are commonly used by professional photographers to improve vision in underwater environments. It cuts blue glare. Now you can add this sophistication to your Jaycar Action Camera without paying a ridiculous price.

- Comes with a strap
- Dimensions: 60 x 53mm



NEW
2016

Note: Camera not included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8084	\$19.95	\$17.95	\$15.95

ACTION CAMERA MOUNTS

A range of mounting accessories for our HD sports cameras. They allow you to capture the action angles for different scenarios. Mount on your chest for much better 'handle bar' view of mountain or mount to the tip of your surfboard. See our website for more details on each model.

TRIPLE SUCTION CUP MOUNT

This 3X suction cup mount is so secure it would mount on Bear Grill's back end and never come off! This is a seriously sturdy mount which is great for mounting on shiny surfaces such as cars, windscreens, other glass, enamel paint, fibreglass, smooth carbon fibre, etc. Supplied with a GoPro®-type camera connection. Limited angular deflection. Cat. QC-8088



NEW
2016

"DOG MOUNT" HARNESS

This product has a curved metal adaptor plate with 6 adjustable straps to go completely around the torso of up to a large dog or other 4 legged animal. It is very, very similar to the original GoPro® dog mount. Cat. QC-8090



NEW
2016

"SPORTSMANS" CAMERA KIT

This is a comprehensive set of hardware designed to create a mount for fishing rods, archery equipment and other hunting type applications. Fits the standard Action Camera models including the GoPro® Hero™ 3+/3/2/1 Cat. QC-8092



NEW
2016

WRIST STRAP ADAPTOR - 360° ROTATION

This unit will velcro-strap around a wrist or upper arm to provide a secure anchor for the camera. Strap material is woven polyester, like a seatbelt. The actual camera secures to the mount which can be rotated through 360° rotation. It is compatible with the GoPro® Hero™ 3+/3/2/1 models as well as Jaycar and other action cameras. Cat. QC-8080



NEW
2016

ZIP-TYPE WRIST MOUNT & GYMBAL ADAPTOR

This unit is similar to the QC-8080, except that the wrist securing device is easy to remove in an emergency, but perhaps not quite as secure as the QC-8080. The ball mount offers greater positional freedom than the QC-8080, however. Cat. QC-8082



NEW
2016

FLEXIBLE CLAMP MOUNT

This mount consists of a strong spring-like clamp and a flexible neck. It will work with all "GoPro®" cameras, Jaycar Action Cameras and most other action cameras in the field. Cat. QC-8078



NEW
2016

360° ROTATION CLIP MOUNT

This unit has a sturdy mounting clip with the camera screw mount mounted to swing in a 360° arc. Suitable for Jaycar and other action cameras and of course the GoPro® Hero™ 3+/3/2/1. Colour black Cat. QC-8086



NEW
2016



CHEST MOUNT HARNESS

Cat. QC-8060



HELMET MOUNT

Cat. QC-8058



KIDS BIKE MOUNT 10-25MM

Cat. QC-8052

BIKE MOUNT 17-32MM

Cat. QC-8054



SPORTS CAM POLE MOUNT

Cat. QC-8056



HEAD STRAP

Cat. QC-8062



SURFBOARD MOUNT

Cat. QC-8050



from new
biking action,



NEW
2016

"UNIVERSAL" MINI TRIPOD KIT

A small lightweight tripod that will mount a Smartphone, 1/4" camera mount or a GoPro®. With locking adaptor and you can make some adjustments to your phone/camera when they are securely mounted. A very handy and inexpensive accessory. Cat. QC-8099



NEW
2016

Smartphone
not included



MONOPOLE MOUNT WITH GOPRO® ADAPTOR

Extends up to 1m.
Cat. QC-8066

FLOATING EXTENDABLE MONOPOD

Cat. QC-8096



Camera not
included

3 WAY TRIPOD STAND

This is a small lightweight stand with a tripod base. It has 3 fold-out sections that will hold a GoPro® camera up to 1 metre off the floor. It is mainly intended for indoor use on a flat stable surface. Cat. QC-8098



NEW
2016

Camera not included

'HANDCUFF' CAMERA MOUNT

This mount enables you to mount your action camera to the left or right hand wrist of a felon. Just imagine! Capture all the scowls and grimaces as the criminal is led by Police into a courtroom or prison cell. Mount consists of 2 x black cable ties (UV Resistant). Other action camera mounts required to render total mounting system operational. JUST JOKING :)

NEW
2016

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Chest Mount	QC-8060	\$24.95	\$22.50	\$19.95
Helmet Mount	QC-8058	\$14.95	\$13.45	\$11.95
Bike Mount 17-32mm	QC-8054	\$16.95	\$14.95	\$13.35
Kids Bike Mount 10-25mm	QC-8052	\$14.95	\$13.45	\$11.95
Sports Cam Pole Mount 32-55mm	QC-8056	\$18.95	\$16.95	\$14.95
Wrist Strap Adaptor	QC-8080	\$19.95	\$17.95	\$15.95
Triple Suction Cup Mount	QC-8088	\$24.95	\$22.45	\$19.95
Surfboard Mount	QC-8050	\$29.95	\$26.95	\$23.70
Head Strap	QC-8062	\$16.95	\$15.25	\$13.55

↑	Cat.	Qty 1+	Qty 4+	Qty 10+
Dog Mount Harness	QC-8090	\$39.95	\$35.95	\$31.95
Monopole Mount with Adaptor	QC-8066	\$29.95	\$26.95	\$23.70
Sportsmans Camera Mounting Kit	QC-8092	\$59.95	\$53.95	\$47.95
Zip-Type Wrist Gymbal Adaptor	QC-8082	\$24.95	\$22.45	\$19.95
Flexible Clamp Mount	QC-8078	\$29.95	\$26.95	\$23.95
Universal Mini Tripod Kit	QC-8099	\$14.95	\$13.45	\$11.95
Floating Extendable Monopod	QC-8096	\$49.95	\$44.95	\$39.95
360° Rotation Clip Mount	QC-8086	\$12.95	\$11.35	\$10.35
3 Way Tripod Stand	QC-8098	\$29.95	\$26.95	\$23.95

FUN & GAMES

Infrared Gun & Mechanical Alien Bug Set

Train and master the weapon of your choice and get ready for the apocalyptic invasion of alien bugs! This hyper-real laser gun can simulate a pistol, shotgun, submachine gun and even rocket launcher. At 40m striking distance with vibration attacking alert, you can pick any battleground to test yourself in tricky scenarios. The alien bug pops belly up when shot on target, a few seconds later they pop back to life and scurry away. Purchase additional alien bugs (GT-4073) available separately and blast away hours of fun. Once mastered, you can setup up to four teams for a laser tag with your human counterparts.



**BEST
SELLER**



- Includes 1 x laser gun and 1 x alien bug
- Gun battery: Requires 4 x AA
- Bug battery: 3.7V 45mAh rechargeable/USB charging cable supplied
- Recommended for ages: 8+
- Gun dimensions: 300(L) x 172(W) x 52(D)mm
- Bug dimensions: 75(L) x 57(W) x 45(H)mm

	Cat.	Qty 1+	Qty 3+
Gun with 1 Alien Bug	GT-4072	\$54.95	\$49.95
Additional Alien Bug	GT-4073	\$19.95	\$17.95

Electronic Dart Board

A completely automated way of enjoying Darts. Features over 25 classic dart games including 301, 501, cricket, cut-throat, count-up and more. It also has sound effects and talks you through the game and informs you whose turn it is, and so on. It features a special surface and safe plastic tip darts that you use instead of the regular metal type.



- There are over 25 classic dart games and up to 110 variations with handicapping.
- No metal tips - safe for children 8+ (with adult supervision)
- Supplied with 6 darts and 30 spare replacement tips
- Requires 3 x AA batteries
- Dimensions: 435(H) x 380(W) x 20(D)mm



	Cat.	Qty 1+
Dart Board	GH-1158	\$49.95
Spare Darts - Pack of 6	GH-1159	\$9.95

The Useless Box

One mystical black box with a single toggle switch. Every time you flip the switch, a little finger pops out from the box and turns itself off. No one on this planet has yet figured out a use for this, hence the name 'The Useless Box'. There is one thing however that we did notice, this magical box leaves anyone who comes into contact with a mesmerised smile on their face.



- Battery: Requires 2 x AA batteries
- Dimensions: 140(H) x 80(W) x 75(D)mm

You've got to watch the video!

It's addictive!



	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3706	\$34.95	\$31.45	\$27.95

USB Keystroke Prankster

Unleash moments of confusion and panic on unsuspecting victims with what appears to be a USB drive. Simply plug it into their computer and it will either randomly type sentences, engage capslock or move the mouse on their PC. Little switches allow you to control the prank option and a dial will adjust the frequency. It's advisable to keep the frequency low to avoid suspicion. PC compatible.



It's tiny!

- Prank capslock, keyboard, mouse or mixtures of all three
- Dial to adjust frequency from 5 seconds to 15 minutes
- Dimensions: 34(L) x 17(H) x 7(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4300	\$29.95	\$26.95	\$23.70

Remote Controlled Secret Farter

We had lots of fun testing this remote controlled high-tech replacement for the traditional Whoopee Cushion. Just hide the box near your intended victim and activate it from up to 15 metres distance with your remote control button. Not only will they be embarrassed, they won't even know who is responsible. Great fun at home or the office.



- 7 different realistic fart noises.
- Requires 4 x AA batteries
- 1 x 12V battery for key fob (supplied) Use SB-2376.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Secret Farter	GH-1088	\$19.95	\$17.70	\$15.70

Bubble Making Kit

Create magnificent bubble spheres and carry them through the air with the magic gloves. Balance bubbles on a fingertip or let them softly land on your palm in a spectacular display of wizardry. This kit includes bubble liquid, 2 gloves, a standard yellow bubble wand and a bubble cone.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bubble Making Kit	AB-1226	\$13.95	\$12.55	\$11.15
Spare Bubble Liquid 2 x 100ml	AB-1233	\$3.95	\$3.55	\$3.15

USB Plasma Ball

Create a dazzling lighting effects with this USB Powered Plasma Ball that will surely impress your colleagues!



Plasma is the fourth state of matter - as the ball becomes energised, the gases inside light up and turn into plasma. By touching the outside of the ball, you provide a path for the energy to escape, so you can produce amazing effects.

- Requires 4 x AAA batteries for portable use
- Dimensions: 130(H) x 100(W)mm

Note: Laptop not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
Plasma Ball	GE-4089	\$19.95	\$17.95	\$15.95

Keyring Keyfinder with LED Torch

Have you ever misplaced your keys and needed them in a hurry? This brilliant device will generate a beeping sound when it detects a whistle. It features a high performance IC with built-in auto power off function to preserve the batteries. It will work effectively within a 3 metre radius. It also doubles as a handy keyring torch!



- Batteries included (2 x LR44 batteries)
- Dimensions: 52(L) x 40(W) x 15(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Keyring Finder	XC-0351	\$7.95	\$7.10	\$6.25

RELATED PRODUCTS

FROM
\$1.95
SB-2424



AA BATTERIES

P279

FROM
\$3.95
SB-2900



PANASONIC AA BATTERIES

P279

FROM
\$4.45
HB-6359



BATTERY CONTAINER

P287

FROM
\$13.95
QP-2252



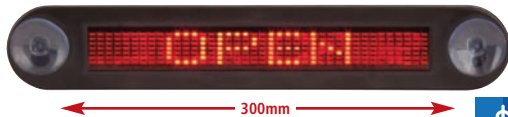
BATTERY TESTER

P286

OFFICE GADGETS

LED Scrolling Message Sign

Programmable scrolling message signs for automotive or home, shop or office applications. Attach this to the rear window of your car to display messages to other motorists. It could be used by taxi and bus drivers to communicate vacancy or destination, emergency traffic control vehicles could communicate messages to slow down. Switch between pre-programmed messages easily with the supplied remote control and adjust the scrolling speed with ease.



Specifications	XC-0201
Mount	Suction
Power	12VDC cigarette lighter socket (incl.)
No. of LEDs	280 (7 x 40)
Programmable messages	10
No. of char. per message	80
Dimensions	300(L) x 50(H) x 10(D)mm



	Cat.	Qty 1+
Suction Mount Scrolling Sign	XC-0201	\$29.95

Scientific Calculator

50 button scientific calculator that performs 240 functions. Includes a slide off cover to protect it while on the go.

- Two line display
- 10+2 digits
- Auto reply
- 240 functions
- Requires 2 x AA batteries
- Dimensions: 161(H) x 84(W) x 25(D)mm

Note: Product may vary slightly to one shown

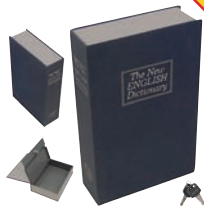


	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7277	\$9.95	\$8.95	\$7.95

Secret Book Safe

Looks like an ordinary dictionary from the outside, but it has a lockable safe hidden within. Fool thieves trying to steal valuables from your home or office, or give to your kids so they can hide their prized possessions from snooping siblings. It has a realistic looking cover and a metal construction inside.

- Two keys are supplied.
- Dimensions: 240(H) x 155(W) x 55(D)mm

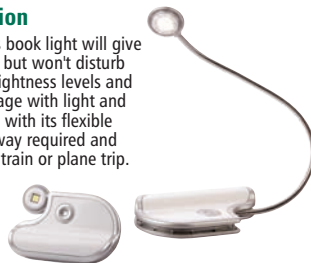


	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3707	\$29.95	\$26.95	\$23.95

Book Light with 2 Mode Operation

Designed to be portable and practical! This book light will give you more than enough light to read in bed but won't disturb your sleeping partner. The light has two brightness levels and uses a super bright 0.5W LED to fill your page with light and make reading a breeze. The slender design with its flexible gooseneck means you can position it any way required and makes a good companion on an overnight train or plane trip.

- On/Off switch with dimmer
- Requires 1 x AAA battery (not included)
- Size 40(W) x 105(L) x 10(D)mm
- Gooseneck length: 250mm long



	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	ST-3205	\$11.95	\$10.75	\$9.55

Coin Counting Cup with LCD Display

A novel approach to the age old concept of the money box. A sensor in the coin slot determines the value of the coin that you deposit and keeps track of how much money you have saved! Your current total is displayed via the digital readout. The handy cup shape means that it will be quite at home in your vehicle's beverage holder. Requires 2 x AAA batteries.

- Australian currency only.

Not available in New Zealand



	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1314	\$19.95	\$17.95	\$15.70

TABLE / DESK LAMPS

Rechargeable Folding 18 LED Lamp with Clock

This minimalist, clean-cut and uniquely designed desk lamp comes in two contrasting forms. It folds down flat so it doesn't take up much space in your travel bag. Unfold to a full sized 18 LED desk lamp with an LCD screen to display the time, date and temperature. Running off the built-in rechargeable Li-ion battery with a micro USB charging port, there is no mess of power cords, no ongoing cost of replacing batteries, and no need to carry a heavy power adaptor. Simply charge it via USB using your laptop or phone charger.



- Adjustable angle for lamp and LCD display
- Alarm clock with snooze function
- 12/24 hour format
- Celsius/Fahrenheit format
- Dimensions: 182(L) x 42(W) x 28(H)mm (folded)



	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL-3148	\$29.95	\$26.95	\$23.70

16 LED Desk Lamp with USB Charge Output

A compact desk lamp for home or work. The lamp head features 16 LEDs and is connected to a flexible gooseneck for 360 degree adjustment. Includes a built-in USB port for charging smart phones, tablets etc. Simply touch on and off.



Specifications	SL-3140
Colour temperature	5600 - 6000K
Lumens	130
Input voltage	5VDC
Power consumption	3W
USB Output	5V/500mA
LED life	40,000 hour
Weight	210g
Dimensions	320(H) x 120(W) x 215(D)mm

	Cat.	Qty 1+
Lumens 130	SL-3140	\$34.95

Adjustable Colour Temperature LED Lamp with LCD Clock

This is no ordinary LED lamp. At the touch of a button on the base, choose between cool white, warm white and natural colour temperatures, and adjust the brightness. It also has an LCD screen located on the arm of the lamp that displays the date, time, and temperature. The light features advanced luminous technology, so there is no glare or stroboscope, and to top it off, the position of lamp head and arm are adjustable. Supplied with a mains power adaptor.

- 3 light modes, warm white, cold white and natural
- 14 x LED lights
- Touch sensitive switches for easy operation
- LCD display with calendar, alarm clock, snooze and thermometer functions
- CR2032 button cell included



Specifications	SL-3142
Power	5V 800mA
LED lifetime	40,000 hours
Dimensions	330(H) x 145(L) x 145(W)mm, 690g



	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL-3142	\$69.95	\$62.95	\$55.95

LED Table Lamp & Work Light

This sleek modern LED table lamp not only looks great but lasts up to 40 times longer than its incandescent rivals. The light produced by the LEDs has a rendering index of 90+ (CRI) making it akin to sunlight. Flicker free, this helps to minimise the strain on your eyes as you read at night or work on fine hobby projects. The touch sensitive buttons allow you to control power and colour temperature so you can set it to a very bright white light or a warm white colour. The LED arm can be folded and rotated around a wide range of directions and can also be completely detached from the base so you can use it as a work light. A brilliant feature adding great versatility.



Specifications	SL-3139
Colour Temperature	3500-5500K
Power	9W
Illumination	100-500 Lumens
Luminous Intensity	> 600Lux
Lamp holder arm	340° swivel
Base	360° swivel
Dimensions	
Light Arm (folded)	345(L)mm
Light Arm (extended)	665(H)mm
Base	199(Dia.) x 16(H)mm



	Cat.	Qty 1+
Lumens 500	SL-3139	\$69.95

GADGETS & GIZMOS

CANDLES & CLOCKS

CANDLE SETS

3 Piece Flameless LED Candle Set

Who needs conventional candles, when you can experience the safe and convenient LED light technology with this 3 piece Flameless LED Candle set. Featuring a soft yellow glow that flickers just like a conventional candle would. This is also made from real wax in which is nearly indistinguishable from a flamed candles. The candle sets also comes with a remote control to switch them on or off from a distance. This will make a nice set for the lounge room, dining table or even the bedroom.

REAL WAX



- 3 Piece LED candles
- Infrared Remote
- Flameless Technology
- 9 x AAA batteries required

	Cat.	Qty 1+	Qty 3+	Qty 6+
Set of 3 with Remote	ST-3927	\$29.95	\$26.95	\$23.70

3 Piece Flameless LED Candle Set with Timer

This is a set of 3 x genuine wax (slightly scented) candles all 78mm Dia. but in heights of 75, 100 & 150mm respectively. They all have an led light inside (where you would expect to see a wick) which glows a yellow colour and flickers realistically. Best of all, they are completely safe. You can go to bed at the end of the night forgetting to turn them off knowing that they will turn off automatically after 4 hours.

REAL WAX



- They require 3 x AAA batteries each - available separately
- Candles can be turned on or off independently
- A fantastic, reliable product and cheaper than real candles

	Cat.	Qty 1+	Qty 3+	Qty 6+
Set of 3 with Remote	ST-3929	\$24.95	\$22.35	\$19.70

LED Tealight Candle - Set of 12

Conventional candles are potentially hazardous in the family home. Today's technology has allowed us to experience a safe and convenient tealight without the smoke or messy wax. Battery operated & simple to use, these lights flicker just like real candles. Ideal for any table, shelves, bedrooms, bathrooms or patios.



- Comes in a set of 12 individual candles.
- Batteries included
- Long life LED

	Cat.	Qty 1+	Qty 3+	Qty 6+
Set of 12	ST-3921	\$14.95	\$13.35	\$11.70

CLOCKS

LCD Clock with Thermometer

A slimline LCD clock that displays both the time and temperature simultaneously on a large, easy to read display. Stylish design with white face & silver coloured surround.

- Desk or wall mount
- 12/24 hour selectable
- °C / °F selectable
- Digit height: 35mm
- Temperature range: 0°C - 50°C
- Requires 2 x AAA batteries
- Dimensions: 215(L) x 73(H) x 22(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Temp	XC-0230	\$24.95	\$22.45	\$20.20

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

LED Wall Clock with Calendar & Temperature Display

A large wall mountable LED clock that cycles between time, calendar (date/month), and temperature display. Features blue LEDs behind a black opaque covering which gives a high level of contrast for easy reading. Time can be displayed in 12 or 24 hour format, the date can be adjusted for dd/mm or mm/dd display, and the temperature can be displayed in Celsius or Fahrenheit. An easy to setup and install multifunction clock, perfect for warehouses, retail environments, or medical waiting rooms. Comes with an infrared remote control for ease of settings control.



400mm

- Mounting holes on rear
- Supplied with 9VDC plugpack
- Requires 1 x AAA for battery backup
- Dimensions: 400(L) x 164(W) x 40(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Wall Clock with Temp	XC-0239	\$119.00	\$106.95	\$94.95

Alarm Clock with Vibrating Wrist Band

A clever device to wake you up if you are hard of hearing or don't want to disturb your partner (or other people in the home) each morning. The wireless wrist band sits comfortably around your wrist (or ankle) and will vibrate when the alarm activates, with or without an audible alarm on the clock. The clock requires 3 x AAA, and the wrist band can be recharged (around once a week) using the supplied USB cable. A second wrist band is available separately for your partner, which can be set at a different alarm time.

- Clock and calendar display
- Dual alarm and snooze
- LCD display with amber backlight
- Snooze function
- Indoor temperature display
- 12/24 hour format
- Dimensions:

Clock 67(W) x 67(H) x 67(D)mm
Vibrator 43(W) x 33(L) x 10(D)mm
Wrist band 32(L) x 3(D)mm



67mm

	Cat.	Qty 1+
Alarm Clock with Wrist Band	AR-1885	\$44.95
Spare Wrist Band	AR-1886	\$24.95

Large Red LED Display Alarm Clock

This fashionable and compact alarm clock has a bright 45mm (1.8 inch) red LED display that is clearly visible from anywhere in your room. The alarm begins gently and gradually ascends louder to wake you up. All the standard functions you find on an alarm clock, including an extra large snooze bar on top. Features an adjustable display brightness and high or low alarm loudness setting. Mains powered with a 1.6m lead.

- 45mm (1.8") high LED display
- High and low alarms
- High and low dimmer display
- Mains powered
- Dimensions: 198(W) x 83(D) x 60(H)mm



198mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Large LED Display	AR-1800	\$37.95	\$33.95	\$30.45

LCD Alarm Clock with Temperature & Calendar

With clearly visible size and stylish designs these LCD alarm clocks are ideal for your home or office workspaces. With several handy features they relay the time, date and temperature. Displays hour, minute, second, month, date and day.

- Thermometer measuring in Celsius or Fahrenheit
- Humidity measurement by percentage
- Alarm function control - turn on/off
- Alarm and snooze function
- Built in stand



280mm

Specifications	XC-0221
LCD Screen	192mm
Digits Height	60mm
Batteries Required	2 x AA
Dimensions	280(L) x 190(H) x 25(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Large 192mm	XC-0221	\$54.95	\$49.45	\$43.95



CLOCKS (CONTINUED)

LED Clock Radio with Night Light & Bluetooth® Technology

Wake up on time everyday to your favourite music with this LED radio clock alarm. Fashionable appearance and all the usual features you expect to find on an alarm clock, including sleep and snooze functions. What makes this clock different is the built-in night light and Bluetooth technology so you can stream music from your phone instead of using the built-in AM/FM radio. Also has a USB socket to charge your Smartphone and tablet. Supplied with a mains power adaptor.

- Stereo (2 x 2WRMS output power)
- Bluetooth® audio streaming
- 30mm (1.2") high LED display
- Night light bar on top panel
- PLL FM radio with 20 memory pre-sets
- Dual Alarm setting
- High/Low dimmer
- Wake to radio or buzzer
- Snooze, sleep function
- 3V battery backup (Requires 2 x AA batteries)
- Dimensions: 201(L) x 111(D) x 80(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Radio	AR-1804	\$59.95	\$53.95	\$47.90

KITCHEN GADGETS

LCD Touch Screen Countdown Timer

An easy-to-use countdown timer for the kitchen, home gym, study, etc. Features a backlit touchscreen, fold-out stand for sitting on a desk or magnets for attaching to a metal surface like a fridge. It has a stylish appearance and the numbers scroll downward with every second and minute, making it mesmerising to watch. At the touch of a button it can be turned into a stopwatch count-up timer.

- Touch screen with white LED backlit display
- Countdown range: 99 minutes and 59 seconds
- 2 x AAA batteries required
- Dimensions: 80(H) x 80(W) x 25(D)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Countdown Timer	QM-6325	\$14.95	\$13.45	\$11.95

5kg Scales with Countdown Timer

An elegant kitchen scale with a large LCD screen display and TARE feature that allows you to weigh items without emptying the bowl. Features a UNIT key to convert the result between oz, g, and lbs, and a built-in countdown kitchen timer with alarm modes. Use the timer to remind you to take the dish out of the oven to avoid overcooking.

The scale is finished in white and has a glass plate, which allows you to weigh both liquid and dry items either directly on the weighing platform or using a container.

Specifications	QM-7288
Capacity	5000g
Units	g/lb/oz
Resolution	1g/0.1oz
Batteries	Requires 2 x AAA batteries
Dimensions	220(L) x 165(W) x 10(H)mm



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
5kg Scale	QM-7288	\$34.95	\$31.45	\$27.90

Wireless 5kg Scales with Clock & Thermometer

Not your average kitchen scale. This digital kitchen scale comes with a wireless display that you can sit elsewhere on the bench, attach to the fridge or mount on the wall at eye level. Read the weight at a quick glance instead of looking under the large mixing bowl obscuring the display or fumbling for your reading glasses.

It also features a thermometer and a clock so the time and room temperature can be displayed when the scale is not in use. The scale has a durable white piano finish with glass surface that is easy to clean. The wireless display has a built-in magnet, a kickstand for wall or bench mounting and a slot to mount to a wall screw.



Specifications	QM-7289
Load capacity	Max. 5kg
Resolution	1g
Requires	2 x AAA for scales and 3 x AAA for the display
Dimensions scales	220(L) x 165(W) x 19(H)mm
Dimensions display	103(L) x 82(W) x 25(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
5kg Scales	QM-7289	\$54.95	\$49.45	\$43.95

BATHROOM GADGETS

Dual Sided Magnifying Mirror

Never have trouble putting in those contacts or applying your make-up again. This dual sided mirror has one mirror at 1 x magnification and the other at 5 x magnification. The frame is rimmed with a LED light making it ideal to use at night or in poor light conditions.



- Mirror dimensions: 110(Dia.)mm
- Mirror and frame dimensions: 150(Dia.)mm
- Requires 3 x AA batteries (use SB-2425)
- Dimensions: 180(L) x 110(W) x 200(H)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
Magnifying Mirror	GH-1067	\$29.95	\$26.90	\$23.70

Mini Electric Wet & Dry Shaver

Ideal for campers and mariners who need a quick way to keep their beard under control. Easy to clean and maintain, and only runs on 2 x AAA batteries (not included). It's waterproof and dustproof with a double blade design for a comfortable smooth shave.



- Dimensions: 40(W) x 78(H) x 14(D)mm

↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1521	\$9.95	\$8.95	\$7.95

Men's 3-In-1 Wet/Dry Groomer

Trim your beard, moustache, sideburns, nose, ear or other facial hair. Cordless and waterproof, the nozzle can be rinsed after use. Three attachments are included - a long hair trimmer, beard/moustache and nose/ear hair trimmers. Runs on a single AA battery.

- 3 interchangeable heads
- Waterproof and hygienic
- 125mm long



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
3-in-1 Groomer	GH-1519	\$19.95	\$17.95	\$15.95

Rechargeable Mens Grooming Kit with Dock

This high quality hair trimmer combines a sleek modern look with high quality precision design and performance. The ergonomically shaped trimmer has an attractive mirrored finish and sits in a sleek charging base that plugs into a power point or hotel shaving outlet. It can be powered two ways - either charge it in its base and use it as a cordless hand held trimmer or plug the power cord straight into the trimmer if you haven't had time to charge it. The high-precision blades are made from a special metal compound for precision cutting and long life use and will never rust. It's designed specifically for low vibration and low noise. Perfect for home use, suitable for kids and adults alike. The trimmer includes three comb attachments - 3mm 6mm 9mm, to ensure you are able to trim to the length you want. Exquisitely packaged, it also makes for a perfect, high quality gift.

Contents:

- 1 x Mirrored finish trimmer
- 1 x Sleek designed charging base
- 3 x Combs
- 1 x Cleaning Brush
- 1 x Blade oil
- 1 x Power Adaptor



↑	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1523	\$24.95	\$22.45	\$19.95

Waterproof Shower Speaker with Bluetooth® Technology

This waterproof shower speaker brings your favourite music to your bathroom. Listen to music wirelessly from your Bluetooth enabled Smartphone or laptop, and take calls wirelessly at the touch of a button. The device comes with a suction cap that allows you to stick it to any flat surface, and is powered by a built-in battery that can be charged with the supplied USB cable.



Specifications	XC-5630
Maximum Range	10m
Charging Time	3 hours
Operating Time	5 hours
Dimensions	93(L) x 85(H) x 45(D)mm, 99g

↑	Cat.	Qty 1+	Qty 3+	Qty 6+	
	Shower Speaker	XC-5630	\$34.95	\$31.45	\$27.90

BATHROOM GADGETS

UV Sanitiser Toothbrush Holder

An ultraviolet light box to sterilise your toothbrushes and stop the build up of potentially harmful bacteria. It helps remove odours and can hold up to 4 toothbrushes at one time. Features an integrated drip tray and toothpaste holder.

- Mains power supply included
- Dimensions: 235(H) x 115(L) x 90(W)mm



Note: Toothbrush not included



	Cat.	Qty 1+	Qty 3+	Qty 6+
UV Toothbrush Holder	GH-1191	\$49.95	\$44.90	\$39.90

HEALTH & FITNESS

USB Rechargeable Bluetooth® Pedometer with App

This tiny pedometer syncs with your Smartphone via Bluetooth® and sends live data as you exercise so you can measure how far you've walked or run in km, how many steps taken, exercise duration and calories burned. This can all be viewed on weekly graphs so you can review your achievements. If the pedometer and phone are not synced, it will record data anyway and upload to your phone when you re-sync.

- The pedometer is recharged via USB
- Free iOS App available
- Dimensions: 38(L) x 30(W) x 9(H)mm



	Cat.	Qty 1+
Pedometer	XC-0390	\$24.95

Bluetooth® Heart Rate Monitor with App

Monitors your heart rate to ensure you are optimising your exercise, and also records your exercise duration, distance, speed and calories burned. Simply place the comfortable textile strap around your chest and it will wirelessly transmit heart rate information to a Bluetooth® enabled Smartphone or Tablet using a free app called Endomondo Sports Tracker. This app is available on Google Play® and the Appstore®.

Features of Endomondo app:

- Track your heart rate
- Track any outdoor sport including duration, distance, speed and calories
- Enter a workout manually, e.g., a treadmill run or weight training
- Get audio feedback for every mile or km while exercising
- See your route on a map
- Easy to change battery hatch



Specifications	XC-0392
Battery life	32 months (using 1 hour a day)
Pulse rate range	30 - 239bpm
Compatibility	iPhone® 4s/5, New iPad®, iPad® 4, iPad® mini, iPod® touch 5
Buckle dimensions	64(L) x 40(W) x 12.9(D)mm
Textile strap dimensions	880(L) x 30(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Heart Rate Monitor	XC-0392	\$49.95	\$44.90	\$39.90

Automatic Blood Pressure Monitor

Monitor your blood pressure at home. Using the oscillometric method it is designed to take accurate blood pressure readings from the wrist and calculate the average as well as store up to 3 readings. Press the start button and the microprocessor automatically calculates systolic and diastolic pressure as well as heart rate. Cost effective - less than one visit to a doctor. It's easy to use with a full instruction manual. Requires 2 x AAA batteries.

- 60 group memory
- Arrhythmia detection function (IHB)
- Stores readings for up to 3 individuals
- Automatic power off function
- Pulse range: 40-199 times per min

- Pulse & LCD display
- Calculate average measurements
- Automatic inflate and deflate
- Pressure range: 0mmHg-299mmHg



Note: This is not a medical diagnostic device and is intended to provide indicative readings only. It should be used in conjunction with advice from a doctor or other clinical professional.



	Cat.	Qty 1+
Blood Pressure Monitor	QM-7254	\$29.95

Sports Stopwatch

This handy 1/100th of a second sports timer will be a useful addition to any sports bag. Not only does it measure elapsed time for up to 24hrs, our water resistant stopwatch has a split time (Lap) function as well as alarm and calendar functions.

- Dimensions: 55(W) x 65(H) x 15(D)mm
- Includes 600mm lanyard

Thousands Sold

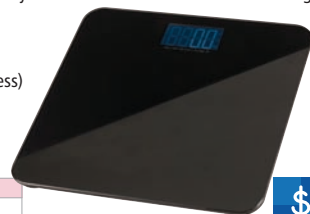


	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0270	\$12.95	\$11.35	\$10.35

Bluetooth® Body Weight Scales with App

With this Bluetooth® digital body scale, you can now monitor and track your fitness by recording your weight and Body Mass Index (BMI) on your personal Smartphone or Tablet. Download the free app available for iOS or Android (search iWellness) and you will be able to see the state and progress of your body in user friendly charts and graphs, you can even set targets and share your achievements on social media and get cheered on by your friends and family.

- Large 4.3 inches backlit LCD
- Smart power saving
- Supports iOS & Android (search iWellness)
- Easy to record weight and retrieve historical data
- Sharing on social media
- Supports multiple users



Specifications	QM-7268
Weight Limits	5 to 180kg
Power Supply	4 x AA batteries included
Dimensions	325(L) x 325(W) x 29(H)mm

	Cat.	Qty 1+
Digital Body Scales	QM-7268	\$49.95

Forehead Thermometer LCD

Quickly and easily check for a fever in an infant, child, or adult. Simply hold the probe end to the forehead and within 1 second a temperature reading will be returned. Ergonomic design with a storage case is included.

- Measures both Celsius (°C) and Fahrenheit (°F)
- Backlight LCD
- One second instant measurement
- Storage case included
- Power: 1 x CR2032 battery included
- Dimensions: 130(L) x 50(W) x 30(D)mm



	Cat.	Qty 1+
Forehead Thermometer	QM-7271	\$24.95

Medical Ear Thermometer

This thermometer measures a patient's temperature via the ear canal - an accurate safe and non-invasive technique. It features a backlight readout so that you can measure, say, a child's temperature in a darkened room without disturbing their sleep.

- Fahrenheit/Celsius switch

Specifications	QM-7272
Range	32.0°C to 42.9°C
Accuracy	±0.3°C
Response time	1 second
Power	Requires 1 x AAA battery
Dimensions	155(L) x 35(D) x 33(W)mm



Other thermometers available - see pages 27-28



	Cat.	Qty 1+
Ear Thermometer	QM-7272	\$29.95

Non Contact Body Thermometer with Smartphone App

A fantastic solution for parents - a thermometer to read your child's temperature instantly! No need to wait up to five minutes with a thermometer in your child's mouth for an accurate result, this non-contact thermometer uses infrared radiation to instantly and accurately measure both body temperature and surface temperature. Use it to ensure you heat up your child's food to an acceptable temperature using the surface temperature mode, and then use the body temperature mode to check if your child is running a fever. It's so effective in fact, that the United States FDA has given their stamp of approval on it!

If all that wasn't enough, there is even the ability to link the unit to your iPhone® or Android® Smartphone, and using a free App you can track your child's temperature over time (and more!), or even use it as a guide for planning pregnancy. See our website for info on the app.

Specifications	QM-7201
Temperature range	0-50°C (32°F - 122°F)
Accuracy	±0.3°C
Response time	0.5 sec
Power off	Automatic
Measuring distance	50-150mm
Dimensions	145(L) x 57(W) x 35(D)mm



	Cat.	Qty 1+
Body Thermometer	QM-7201	\$49.95

Order Form



Post	Fax	Phone	Email
Freepost to Jaycar Techstore PO Box 7172 Silverwater DC NSW 1811	(02) 8832 3118	Free Call 1800 022 888 Credit Card Orders and International / Enquiries (02) 8832 3245	techstore@jaycar.com.au Website www.jaycar.com.au

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Phone: Fax:

Address:

Email:

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Have you purchased by Mail Order from us before? ☐ Yes ☐ No

If YES, please specify your account number

Country: State: Postcode:

Has your billing address changed since your last order? ☐ Yes ☐ No

Has your billing address changed since your last order? ☐ Yes ☐ No

[illegible]

Freight

Invoice Value	Standard / Road Freight 2-5 working days	Premium Freight Orders made before 12:00pm on a working day for Metro areas, other Premium freight requires a street No delivery to P.O. boxes
\$10-\$99.99	\$7.00	\$9.00
\$100-\$199.99	\$9.00	\$11.00
\$200-\$499.99	\$12.00	\$16.00
Over \$500	\$17.00	POA*
Over 20kg	POA*	POA*
Overseas Airmail	POA*	NA

One whole dollar per \$100 goods value or part thereof (Australia only). See Terms & Conditions for details.

* POA: Our staff will calculate the freight charge based on the order, freight method and destination. Staff will promptly contact you to advise of the charge

Subtotal		
Insurance		Aerosol, flammables, heavy and bulky items can only be sent by road.
Freight		Out of stock lines' Items under \$10 are not back ordered. Please re-order once item(s) are in stock. If your order is unusually bulky, heavy or fragile, we may choose to send your goods to you by road at our expense. We cannot send goods by road to a PO Box. However, if you feel your order may fit into this category, please include a street address -either work or home.
Subtotal		
Total		Freight Information. Simply add the amount shown in the freight charges chart on the left. Don't forget to add extra amount for airmail

Minimum order \$10

Aerosol, flammables, heavy and bulky items
can only be sent by road.

Out of stock lines: Items under \$10 are not back ordered. Please re-order once item(s) are in stock. If your order is unusually bulky, heavy or fragile, we may choose to send your goods to you by road at our expense. We cannot send goods by road to a PO Box. However, if you feel your order may fit into this category, please include a street address - either work or home.

Freight information. Simply add the amount shown in the freight charges chart on the left. Don't forget to add extra amount for airmail and insurance if you require these services. These charges are for goods sent by post in Australia only - not airmail overseas or road freight.

Final check. Please make sure that you have given full details of the products you require, the correct prices, the full postage or transportation cost, plus make sure that your name and address are legible.

Your order will arrive faster if all details given are correct.
Minimum order amount \$10.
14 Day satisfaction guarantee.

Provided that you have returned the goods in original condition (and that means the outer packaging, if any, must be unmarked). You must keep your invoice as proof of purchase. We will not refund post, packing, insurance or other transport charges. Freight on returned goods must be pre-paid. Do not return goods by COD. Please do not ask for a refund after 14 days from purchase date (this allows for transportation delays).

*Overnight delivery. Available on request subject to conditions: Max physical/cubic weight 5kg. Area must be covered by day service (phone for details). No PO Box address.

*Please see the Jaycar website for full terms and conditions.

Payment Details

Rewards or Trade Card Number

☐ Cheque/Money Order in A\$ (do not post cash) ☐ Credit Account (approved customers only)

 Gift Card

☐ Mastercard ☐ Visa ☐ Amex



AMEX incurs a non-refundable 2.7% + GST Surcharge

Signature

Card Num Exp: /

Exp: /

DISCLAIMER

All possible care has been taken in the preparation of this catalogue. However, specifications and particulars in relation to the products referred to in this catalogue are subject to change without prior notice. Some photographs contain samples which are representative only. Stocked items may vary in colour and look. Jaycar Electronics will not be held liable for any errors or omissions.

PRICES

All prices quoted in this catalogue include Goods and Services Taxes (GST) and are current at the time of printing. So you can be confident of price stability. At Jaycar Electronics, we make every endeavour to maintain prices for the life of the catalogue. However, factors beyond our control (such as changes in foreign currency exchange rates, changes in base material costs etc.) may vary costs and we reserve the right to amend prices accordingly.

STOCK AVAILABILITY

At Jaycar Electronics we are constantly seeking new products and due to the rapid developments within the electronics industry some products in this catalogue may become obsolete or discontinued during its life. In the event of this happening we apologise for the inconvenience and where possible will substitute a similar product of equal or better quality.

OUR RAINCHECK

If your local Jaycar Electronics store has sold out of a currently advertised line, we will be happy to issue you with a 'raincheck'. This 'raincheck' can be presented as soon as the stock arrives and you can buy the original item (or its comparable product) at the advertised price - even if the original promotion has ended. 'Rainchecks' do not apply to items that have been advertised as 'limited', 'discontinued', 'surplus' or 'clearance' ranges.

'CHANGE OF MIND' RETURNS

Although not obligated to do so, at Jaycar Electronics we appreciate that you may have second thoughts about your purchases and will give a 'Change of Mind' refund if goods are returned within 7 days (14 days for mail order and internet purchases). For 'Change of Mind' purchases, goods can only be accepted back for refund or exchange in "as sold" condition including undamaged original packaging, complete instruction books, manuals, accessories, etc. If freight expenses of any type have been incurred, these are not refundable. We require that any cash, credit card, or EFTPOS refunds over \$250 must be refunded by cheque for security reasons. Jaycar does not provide credit notes. Your Sales Docket must accompany all returns. *Note: Refunds on 'Change of Mind' purchases do not apply to books, batteries, headphones, health products, semiconductors, computer software, all recordable media, some tools and non multimeter test equipment (including cathode ray oscilloscopes), step-down transformers (240-100V), some party lighting and associated products.

WARRANTIES

Jaycar warranty period is 3 months from date of purchase, or such longer period as stated in this catalogue. Many products carry one year, two year, five year, or lifetime warranty or may qualify for over-the-counter replacement. These items are identified in the catalogue by the icons explained on page 5. If any defect in materials or workmanship in product sold by Jaycar Electronics is identified and notified to us within the warranty period then we will, at our discretion repair or replace the product. Jaycar Electronics does not accept any liability beyond this for consequential loss. Warranty is subject to us being satisfied that a defect was caused by defective workmanship or materials and was not caused by or was not substantially contributed to by other factors beyond our control, including (but not limited to) defective installation, maintenance, or repair; alterations or modifications of the product in a manner not recommended by the manufacturer; or any neglect, misuse or excessive use. The original Sales Docket or cash receipt must accompany warranty claims to provide starting date of the warranty period.

KIT WARRANTY

Most kits are successfully constructed with few problems however, once the kit is under construction all warranty is void, as we cannot guarantee assembler's workmanship or components that have been used.

STATUTORY WARRANTIES

Any statutory warranties applicable to your purchase will be honoured by Jaycar in addition to the warranties set out herein. If there is any conflict between any warranty herein contained and a statutory warranty, the terms of the statutory warranty will prevail.

FREIGHT CHARGES RELATING TO WARRANTY ITEMS

Warranty repairs or replacements of goods is free of charge however freight charges to and from the service department is required to be paid by the customer.

TRADE CARD

If you are professionally engaged in some aspect of the electronics industry on a daily basis, you may qualify for a Jaycar Electronics Trade Card. This facility is available in every store including TECHSTORE, to provide you with the opportunity to purchase at special

trade prices. Simply call into your local Jaycar store and ask the manager or if you are a TECHSTORE customer email us at techstore@jaycar.com.au. We can provide you with convenient locations, fantastic service and great prices! (Not available for transactions outside Australia and New Zealand.)

REWARDS CARD

For a full list of terms & conditions go to www.jaycar.com.au/rewards

ACCOUNT FACILITIES

Jaycar Electronics is happy to provide account facilities for the following organisations:

- Schools (Government & non-Government), TAFE, Colleges and Universities
- State & Federal Government Depts, including research facilities
- Hospitals
- Mining companies
- TV & Radio Stations
- ALL public ('LTD') companies

ALL 'Pty Ltd' companies, Sole Traders or Partnerships must complete an account application form. Simply write to "The Financial Controller", PO Box 7172 Silverwater NSW 1811.

If you are one of the above you can buy from us on a 30-day (strictly from invoice) account. The invoice will go with the goods or to your accounts payable office (you nominate). Non Payment of monies due will be cause to discontinue supply and to commence recovery procedures.

RECOVERY OF MONIES OWED

In the event that Jaycar needs to recover monies owed then the full balance on the account becomes due and payable and all costs of recovering this money will be borne by the debtor.

TECHSTORE - MAIL ORDER & INTERNET PURCHASES

For Mail Order & Internet Purchases special conditions apply:

- Goods - Aerosols, flammable, heavy and bulky items cannot be sent by post.
- Payment - via cheque, money order or credit card (MasterCard, Visa, American Express).

- Minimum Order Value - Mail order & Internet purchases have a minimum order value of \$10.

- International Orders - Please remember you may have to pay customs and importing charges at your end (if applicable). We cannot supply full customs documentation, but all parcels include required customs dockets. Should you require to return goods for any reason from outside Australia it is essential that customs documentation is included. If customs dockets are not included it can be a costly exercise to have the goods cleared by Customs and the customer must pay this charge. Failure to include customs documentation may result in long delays. Note: Jaycar Electronics cannot accept any responsibility or liability for the suitability of any product for use outside Australia, nor its compliance with local regulations.

- Freight - Various freight options and rates are given on the order form. After selecting the freight option that suits you, please clearly mark it and add these additional charges to the total on your order. Goods cannot be delivered to a PO box via road or air courier service.

- Missing or Damaged Goods - At Jaycar, we've sent out hundreds of thousands of parcels via post over the last 30+ years and the number of items that have been genuinely lost is less than 0.001%. We've found road and air transportation equally as reliable. However it must be emphasised that our responsibility for the goods ceases when the goods are handed over to the nominated carrier. Risk on the goods passes to you when the goods leave our warehouse. Our order form allows you to elect to have goods insured against loss in transit at your cost - otherwise loss of goods in transit is at your own risk. All claims for missing and damaged goods in transit must be lodged with the carrier or local Post Office. If goods have been insured please contact Jaycar Electronics.

- Insurance - If you wish to insure, it will cost \$1 for every \$100 value or part thereof eg. If your order is for \$145 the insurance will be \$2. This insurance covers goods DAMAGED in transit. (Note: Some items such as solar panels etc. are difficult to ship and have a higher insurance fee of \$7.50 per \$500.) If you do not wish to insure, a statement saying 'Insurance Declined' will appear on the order. If you post an order don't forget to consider insurance. We do not automatically issue insurance unless you specify. If you don't mention insurance you will NOT be insured.

- Out of Stock Items - Items under \$10 are not back ordered. Please re-order once item(s) are in stock.

STORE LOCATIONS AND HOURS

Store locations and hours are located on the back of this catalogue and were correct at time of print. For new stores and current trading hours visit our website at www.jaycar.com.au.

ANY PROBLEMS

We are proud of our standing with our Customers and are keen to get any feedback, good or bad, to improve our service, products, stores - or any aspect of our business. So please, do not hesitate to contact us.

JAYCAR AUTHORISED STOCKISTS/WHOLESALE ENQUIRIES

A listing of Jaycar Stockists in your area can be found on the inside back cover of this catalogue. For new Stockists visit our website at www.jaycar.com.au. If you are a reseller of electronics goods you may be able to increase your income by reselling Jaycar products. For more information contact The Stockist Manager on 1300 738 555 or email stockist@jaycar.com.au. For wholesale enquiries, please refer to our main supplier Electus Distribution (Australia: 1300 738 555 & New Zealand: 0800 235 328).

PRIVACY POLICY

Jaycar Pty Ltd (Jaycar) is committed to protecting the privacy of all individuals. To deliver our commitment to privacy, we will comply with the legislation and regulations of the countries in which we operate. This statement provides a succinct overview of how we handle personal information. Our complete Privacy Policy can be accessed on our website. Both this Condensed Privacy Policy and the complete Privacy Policy were updated March 2014. As an Australian registered company, Jaycar is bound by the current Privacy Act, any amendments and the Australian Privacy Principles (APPs) contained within that Act. All employees and officers of Jaycar are required to comply with the Act and this Privacy Statement. Jaycar has a Privacy Act Procedure which can be obtained by emailing privacyofficer@jaycar.com.au. Information or opinions which are collected, held, used or disclosed by Jaycar about an individual whose identity is apparent, or can reasonably be ascertained, will be protected by the standards outlined in this Statement. To deliver our commitment to privacy, we will:

- Be bound by, and comply with, the APPs under the Act in relation to personal information
- Communicate this Privacy Statement to all employees and stakeholders to ensure awareness of their requirement to comply with our privacy standards and to anyone else who asks for it
- Ensure lawful, fair and unobtrusive means are used to collect personal information that is necessary for our business purposes
- Collect sensitive information only with the individual's consent and not disclose any personal information to an unrelated third party, except with the individual's consent or where we are required to do so by law
- Take reasonable steps to destroy or de-identify personal information in a secure manner when we have no further need for it or are required to do so by law
- Ensure only authorised personnel who have agreed to keep personal information confidential have access to the information
- Take reasonable steps to keep personal information up to date, accurate and complete
- Provide individuals access to their personal information on request
- Periodically review and revise this Privacy Statement and related procedures to maintain relevance.

Jaycar recognises and respects the importance of each individual's privacy. This Statement and related procedures ensure all personal information held by Jaycar is handled appropriately and kept confidential.

What do we use personal information for?

Any personal details you provide will be used for the purpose of dealing with your request, enquiry, transaction or application for employment. This may involve disclosing your personal information to companies within the Jaycar Group, or to service providers who assist us in operating our business. These organisations are required to comply with the principles of this Statement.

Data Security

We take steps to protect the personal information we hold against loss, unauthorised access, use, modification or disclosure, and against other misuse. When the personal information that we collect is no longer required, we destroy or delete it in a secure manner, in accordance with our documented procedure.

Your Choices

You can access the personal information that we hold about you, and you can ask us to correct the personal information we hold about you. For more information, see our complete Privacy Policy which located on our website. If you are listed on one or more of our media or network email lists you can opt out at any time. You can unsubscribe by using the 'unsubscribe' link in our emails.

Our Obligations

Jaycar is bound by the information Privacy Principles in the Privacy Act. For more details see our complete Privacy Policy on our website.

How to Contact us

For further information contact us on privacyofficer@jaycar.com.au or alternatively you can write to Privacy Officer, Jaycar Electronics PO Box 7172 Silverwater NSW 1811, Australia.

LEGAL JURISDICTION

Jaycar operates under the laws and regulations of the State of New South Wales. Therefore any legal disputes will be conducted in courts or tribunals situated in New South Wales and under the laws and regulations of New South Wales, Australia.

CATALOGUE NUMBER INDEX INDEXES

HP-0146	209	HP-0926	210	HP-9564	100	KJ-8050	119	KJ-8917	108	LA-5353	434	LF-1536	157	M	MM-2008	175	
HP-0148	209	HP-0930	209	HP-9565	100	KJ-8051	119	KJ-8918	108	LA-5367	429	LF-1538	157	MB-3501	469	MM-2011	176
HP-0150	209	HP-0934	209	HP-9566	100	KJ-8052	119	KJ-8919	110	LA-5368	429	LF-1540	157	MB-3514	285	MM-2012	176
HP-0160	209	HP-0980	209	HS-8012	385	KJ-8053	119	KJ-8926	111	LA-5369	429	LF-1542	157	MB-3518	242	MM-2013	175
HP-0162	209	HP-0982	209	HS-8016	385	KJ-8054	119	KJ-8936	111	LA-5473	428	LF-1544	157	MB-3522	242	MM-2014	176
HP-0166	209	HP-0984	209	HS-8022	385	KJ-8055	119	KJ-8937	112	LA-5475	428	LF-1546	157	MB-3527	242	MM-2015	176
HP-0168	209	HP-0986	209	HS-8025	213	KJ-8056	119	KJ-8939	111	LA-5476	428	LM-1612	58	MB-3527	242	MM-2017	174
HP-0300	209	HP-0988	209	HS-8714	250	KJ-8057	119	KJ-8957	108	LA-5558	430	LM-1614	58	MB-3549	285	MM-2018	174
HP-0310	209	HP-0990	209	HS-8780	250	KJ-8058	119	KJ-8960	112	LA-5561	429	LM-1616	58	MB-3551	285	MM-2020	177
HP-0322	209	HP-1100	135	HS-8785	250	KJ-8059	119	KJ-8961	112	LA-5562	428	LM-1618	58	MB-3563	285	MM-2520	177
HP-0390	209	HP-1102	135	HS-8800	250	KJ-8060	119	KJ-8965	111	LA-5564	428	LM-1622	58	MB-3561	285	MM-2530	177
HP-0400	209	HP-1103	135	HS-8801	250	KJ-8061	119	KJ-8966	111	LA-5568	315	LM-1624	55	MB-3581	286	MM-2532	177
HP-0401	209	HP-1110	135	HS-8802	250	KJ-8062	119	KJ-8967	112	LA-5570	315	LM-1626	58	MB-3605	302	MM-2534	177
HP-0403	209	HP-1114	135	HS-8803	250	KJ-8063	119	KJ-8968	108	LA-5572	315	LM-1628	58	MB-3607	241	MP-3011	266, 415
HP-0404	209	HP-1115	135	HS-8804	250	KJ-8064	119	KJ-8970	109	LA-5573	316	LM-1652	58	MB-3608	241	MP-3021	266, 428
HP-0406	209	HP-1118	135	HS-8805	250	KJ-8065	119	KJ-8972	109	LA-5575	316	LM-1658	58	MB-3609	239	MP-3026	266
HP-0407	209	HP-1122	144	HS-8806	250	KJ-8066	119	KJ-8974	109	LA-5576	316	LO-1230	156	MB-3611	239	MP-3027	266
HP-0410	209	HP-1140	144	HS-8807	250	KJ-8067	119	KJ-8976	109	LA-5577	316	LO-1234	156	MB-3613	240	MP-3032	266
HP-0414	209	HP-1142	144	HS-8810	250	KJ-8068	119	KJ-8978	109	LA-5578	316	LO-1238	156	MB-3618	242	MP-3043	267
HP-0418	209	HP-1150	144	HS-8811	250	KJ-8069	119	KJ-8980	109	LA-5579	314	LO-1242	156	MB-3619	242	MP-3045	267
HP-0425	209	HP-1155	144	HS-8812	250	KJ-8070	119	KJ-8982	109	LA-5580	316	LO-1244	156	MB-3623	242	MP-3058	266
HP-0426	209	HP-1156	144	HS-8813	250	KJ-8071	119	KJ-8986	109	LA-5582	316	LO-1246	156	MB-3625	242	MP-3059	266
HP-0430	209	HP-1160	144	HS-8860	250	KJ-8072	119	KJ-8990	110	LA-5584	316	LR-8812	510	MB-3632	286	MP-3061	264
HP-0431	209	HP-1161	144	HS-8862	250	KJ-8073	119	KJ-8991	110	LA-5591	313	LR-8815	510	MB-3637	286	MP-3063	264
HP-0433	209	HP-1162	144	HS-8864	250	KJ-8074	119	KJ-8992	110	LA-5592	313	LR-8819	509	MB-3638	286	MP-3064	262
HP-0436	209	HP-1166	144	HS-8866	250	KJ-8075	119	KJ-8994	112	LA-5593	314	LR-8824	509	MB-3639	286	MP-3066	264
HP-0440	209	HP-1172	144	HS-9012	304	KJ-8076	119	KJ-8996	110	LA-5594	313	LR-8827	509	MB-3646	302	MP-3078	260
HP-0441	209	HP-1174	144	HS-9013	304	KJ-8077	119	KJ-8997	107	LA-5595	314	LR-8829	509	MB-3651	300	MP-3079	260
HP-0450	209	HP-1176	144	HS-9022	305	KJ-8078	120	KR-3160	107	LA-5596	314	LR-8834	510	MB-3653	300	MP-3080	267
HP-0451	209	HP-1190	210	HS-9023	304	KJ-8079	120	KR-3162	107	LA-5597	314	LR-8837	510	MB-3655	301	MP-3083	288
HP-0453	209	HP-1192	135	HS-9027	305	KJ-8080	120	KV-3540	123	LA-5598	314	LR-8839	510	MB-3656	299	MP-3087	261
HP-0462	209	HP-1193	135	HS-9029	305	KJ-8081	120			LA-5599	314	LR-8842	510	MB-3658	302	MP-3089	260
HP-0465	209	HP-1195	207	HS-9034	304	KJ-8084	120	L		LA-5610	426	LR-8847	435	MB-3662	302	MP-3090	261
HP-0468	209	HP-1196	208	HS-9036	305	KJ-8085	120	LA-5002	432	LA-5614	426	LR-8855	509	MB-3664	302	MP-3094	261
HP-0550	209	HP-1198	208	HS-9038	304	KJ-8086	120	LA-5005	429	LA-5616	426	LR-8856	509	MB-3665	302	MP-3096	260
HP-0554	209	HP-1200	208	HS-9050	304	KJ-8087	120	LA-5018	432	LA-5618	426	LR-8857	509	MB-3666	302	MP-3097	260
HP-0558	209	HP-1201	208	HS-9052	304	KJ-8092	120	LA-5024	432	LA-5619	426	LR-8858	509	MB-3668	300	MP-3098	260
HP-0565	209	HP-1202	208	HS-9054	304	KJ-8093	120	LA-5029	432	LA-5620	426	LS-3302	371	MB-3669	300	MP-3126	252
HP-0620	209	HP-1203	208	HS-9055	304	KJ-8100	120	LA-5044	430	LA-8901	511	LS-3320	371	MB-3685	245	MP-3129	252
HP-0624	209	HP-1204	208	HS-9056	304	KJ-8101	120	LA-5046	430	LA-8903	511	LS-3330	371	MB-3686	245	MP-3144	265
HP-0625	209	HP-1205	208			KJ-8102	120	LA-5055	432	LA-8904	511	LS-3301	368	MB-3688	245	MP-3145	265
HP-0626	209	HP-1206	232	K		KJ-8103	120	LA-5066	187	LA-8908	511	LT-3002	368	MB-3695	302	MP-3146	265
HP-0628	209	HP-1209	208	KA-1119	131	KJ-8104	120	LA-5070	430	LA-8912	511	LT-3020	367	MB-3696	302	MP-3147	265
HP-0638	209	HP-1210	208	KA-1683	125	KJ-8105	120	LA-5072	430	LA-8992	510	LT-3022	374	MB-3697	468	MP-3150	263
HP-0650	398	HP-1211	208	KA-1732	127	KJ-8106	120	LA-5073	430	LA-9003	510	LT-3027	367, 444	MB-3698	302	MP-3152	263
HP-0680	210	HP-1212	208	KA-1778	129	KJ-8107	120	LA-5074	430	LA-9004	510	LT-3028	374	MB-3699	469	MP-3154	263
HP-0682	210	HP-1213	208	KA-1809	123	KJ-8108	120	LA-5075	430	LA-9021	510	LT-3030	367	MB-3710	241	MP-3160	263
HP-0692	210	HP-1214	232	KC-5150	122	KJ-8109	120	LA-5076	430	LA-9025	508	LT-3031	367	MB-3715	241	MP-3162	263
HP-0694	210	HP-1216	208	KC-5152	122	KJ-8110	120	LA-5077	434	LA-9026	436	LT-3033	367, 470	MB-3717	302	MP-3165	263
HP-0702	207	HP-1217	208	KC-5159	122	KJ-8111	120	LA-5078	434	LA-9027	508	LT-3035	367	MB-3720	303	MP-3167	263
HP-0704	207	HP-1218	208	KC-5166	122	KJ-8114	120	LA-5081	434	LA-9028	436	LT-3040	367	MB-3723	303	MP-3170	263
HP-0716	207	HP-1219	208	KC-5172	123	KJ-8115	120	LA-5082	511	LE-8775	187, 511	LT-3041	367	MB-3724	303	MP-3172	263
HP-0718	207	HP-1220	208	KC-5178	124	KJ-8200	117	LA-5101	416	LE-8776	187, 511	LT-3042	367	MB-3726	303	MP-3174	263
HP-0720	207	HP-1221	208	KC-5225	125	KJ-8201	117	LA-5102	428	LE-8777	187, 511	LT-3044	367	MB-3728	303	MP-3175	263
HP-0724	207	HP-1222	208	KC-5317	125	KJ-8202	117	LA-5106	416	LE-8779	187, 511	LT-3045	367	MB-3729	297, 303	MP-3176	263
HP-0727	207	HP-1223	208	KC-5377	126	KJ-8203	117	LA-5107	416	LF-1010	156	LT-3046	367	MB-3730	485	MP-3178	263
HP-0732	207	HP-1224	208	KC-5381	125	KJ-8204	117	LA-5108	416	LF-1012	156	LT-3047	367	MB-3732	485	MP-3185	263
HP-0736	207	HP-1225	208	KC-5391	128	KJ-8205	117	LA-5112	431	LF-1016	156	LT-3050	374	MB-3740	468	MP-3189	263
HP-0740	207	HP-1226	206	KC-5392	124	KJ-8206	117	LA-5114	416	LF-1020	156	LT-3053	374	MB-3742	468	MP-3190	264
HP-0744	207	HP-1227	208	KC-5434	128	KJ-8207	117	LA-5115	416	LF-1050	157	LT-3057	374	MB-3746	468	MP-3192	264
HP-0745	207	HP-1228	206	KC-5445	130	KJ-8208	117	LA-5142	427	LF-1060	157	LT-3058	367	MB-3752	484	MP-3195	264
HP-0746	207	HP-1229	208	KC-5446	128	KJ-8209	117	LA-5146	427	LF-1062	157	LT-3062	372	MB-3754	484	MP-3196	264
HP-0747	207	HP-1232	208	KC-5463	128	KJ-8210	117	LA-5147	427	LF-1100	156	LT-3063	367, 373	MB-3756	486	MP-3197	264
HP-0748	207	HP-1235	208	KC-5466	126	KJ-8211	117	LA-5149	427	LF-1102	156	LT-3065	367	MB-3760	484	MP-3209	262
HP-0752	210	HP-1237	208	KC-5473	127	KJ-8212	117	LA-5155	429	LF-1104	156	LT-3066	367	MB-3762	484	MP-3241	266
HP-0754	210	HP-1239	208	KC-5475	124	KJ-8213	117	LA-5157	313	LF-1106	156	LT-3082	371	MB-3765	485	MP-3242	266
HP-0756	210	HP-1244	208	KC-5478	129	KJ-8214	117	LA-5158	314	LF-1108	156	LT-3116	368	MC-7200	451	MP-3243	266
HP-0760	210	HP-1245	208	KC-5498	126	KJ-8215	117	LA-5159	427	LF-1220	156	LT-3137	368	MC-7202	451	MP-3246	266
HP-0762	210	HP-1246	208	KC-5501	129	KJ-8216	117	LA-5164	427	LF-1222	156	LT-3138	370	MD-7000	104	MP-3248	266
HP-0764	210	HP-1247	208	KC-5502	129	KJ-8217	117	LA-5176	433	LF-1250	156	LT-3141	369, 444	ME-6800	450	MP-324	

MP-3471	340	N	PA-0620	229	PA-3671	230	PI-6606	149	PP-0383	220	PP-0843	234	PP-2054	500	PS-0274	215
MP-3472	340	NA-1000	PA-0621	229	PA-3672	230	PI-6620	149	PP-0385	220	PP-0860	234	PP-2062	475	PS-0275	215
MP-3476	340	NA-1002	PA-0622	229	PA-3673	230	PI-6630	149	PP-0386	220	PP-1000	226	PP-2064	475	PS-0276	215
MP-3477	340	NA-1004	PA-0624	229	PA-3674	230	PL-0750	338	PP-0387	220	PP-1002	226	PP-2066	475	PS-0277	215
MP-3478	262	NA-1008	PA-0627	229	PA-3675	230	PL-0758	338	PP-0388	220	PP-1004	226	PP-2068	475	PS-0278	215
MP-3480	265	NA-1012	PA-0628	229	PA-3676	216	PL-0759	338	PP-0389	220	PP-1006	226	PP-2069	475	PS-0279	215
MP-3482	265	NA-1012	PA-0629	229	PA-3677	216	PL-0978	338	PP-0390	220	PP-1008	226	PP-2090	477	PS-0281	366
MP-3484	265	NA-1013	PA-0633	230	PA-3678	215	PL-0980	338	PP-0391	220	PP-1010	217	PP-2094	477	PS-0291	366
MP-3486	265	NA-1015	PA-0635	229	PA-3679	230	PL-0981	338	PP-0394	220	PP-1012	217	PP-2098	479	PS-0293	219
MP-3486	265	NA-1018	PA-0681	231	PA-3680	217	PM-0648	231	PP-0395	220	PP-1013	217	PP-2099	479	PS-0294	219
MP-3490	265	NA-1020	PA-0875	329	PA-3682	217	PM-0808	234	PP-0400	220	PP-1016	217	PP-2110	475	PS-0295	366
MP-3492	265	NA-1022	PA-0876	329	PA-3684	217	PM-0810	234	PP-0402	220	PP-1020	217	PP-2112	475	PS-0296	366
MP-3494	265	NA-1024	PA-0878	222	PA-3686	217	PM-0812	234	PP-0416	220	PP-1023	217	PP-2114	475	PS-0297	366
MP-3496	265	NA-1032	PA-0882	329	PA-3689	218, 362	PM-0828	234	PP-0417	220	PP-1040	216	PP-2116	475	PS-0340	222
MP-3540	299	NA-1034	PA-0896	329, 365	PA-3691	266	PM-0830	234	PP-0425	23	PP-1052	216	PP-2131	479	PS-0348	222
MP-3542	299	NA-1040	PA-0897	329	PA-3692	266	PM-0833	234	PP-0426	220	PP-1058	216	PP-2136	479	PS-0350	222
MP-3544	299	NA-1060	PA-0898	329	PA-3696	476	PM-0847	234	PP-0427	220	PP-1080	218	PP-2138	301, 480	PS-0352	222
MP-3546	299	NA-1066	PA-0899	329	PA-3700	225	PM-0848	234	PP-0434	221	PP-1090	218	PP-2140	508	PS-0354	222
MP-3547	299	NA-1067	PA-0900	329	PA-3701	225	PM-0850	234	PP-0435	221	PP-1091	218	PP-2142	507	PS-0355	222
MP-3573	262	NA-1070	PA-0901	329	PA-3702	225	PM-0852	234	PP-0436	220	PP-1100	236	PP-2144	479	PS-0358	222
MP-3575	262	NA-1200	PA-0904	329, 345	PA-3704	225	PM-0854	234	PP-0437	220	PP-1106	236	PP-2145	508	PS-0359	222
MP-3578	301	NA-1202	PA-0906	329, 345	PA-3706	225	PM-0855	234	PP-0503	225	PP-1110	236	PP-2146	508	PS-0368	222
MP-3616	480	NA-1410	PA-0908	329	PA-3707	225	PM-0857	234	PP-0504	225	PP-1112	236	PP-2150	475	PS-0372	222
MP-3618	480	NA-1420	PA-0915	329	PA-3711	225, 415	PM-0859	234	PP-0505	225	PP-1114	236	PP-2151	478	PS-0376	222
MP-3619	480	NA-1500	PA-0917	329	PA-3713	225, 415	PM-0868	234	PP-0506	225	PP-1116	236	PP-4000	270	PS-0377	222
MP-3660	301	NA-1504	PA-0921	329	PA-3715	231, 415	PM-1034	217	PP-0507	225	PP-1118	236	PP-4001	270	PS-0378	222
MP-3663	300	NA-1510	PA-0928	324	PA-3716	231	PM-1441	227, 344	PP-0508	225	PP-1122	236	PP-4003	268	PS-0406	220
MP-3665	300	NA-1518	PA-0929	324	PA-3717	215	PM-1442	227, 344	PP-0509	225	PP-1126	236	PP-4004	268	PS-0408	220
MP-3667	300	NA-1522	PA-0930	228, 327	PA-3718	215	PM-4015	268	PP-0510	225	PP-1128	236	PP-4005	268	PS-0412	221
MP-3668	300	NA-2829	PA-0931	228, 327	PA-3800	217	PM-4016	268	PP-0511	225	PP-1132	236	PP-4007	268	PS-0414	221
MP-3669	297, 300	NC-4254	PA-0933	228, 327	PA-3802	217	PM-4430	223, 474	PP-0512	225	PP-1134	236	PP-4009	268	PS-0420	220
MP-3670	300, 326	NM-2010	PA-2038	502	PB-8815	101	PM-4432	223, 474	PP-0513	225	PP-1138	236	PP-4012	268	PS-0421	220
MP-3671	262, 301	NM-2011	PA-2048	502	PB-8816	101	PM-4434	223, 474	PP-0514	225	PP-1140	236	PP-4020	271	PS-0422	220
MP-3672	300, 326	NM-2012	PA-2061	500	PB-8817	101	PM-4436	223, 474	PP-0515	225	PP-1142	236	PP-4023	272	PS-0423	220
MP-3675	262, 490	NM-2013	PA-2062	500	PB-8819	101	PM-4438	223, 474	PP-0531	225	PP-1148	236	PP-4024	272	PS-0424	220
MP-3676	301	NM-2014	PA-2063	500	PB-8820	101	PM-4439	223, 474	PP-0532	225	PP-1150	236	PP-4025	272	PS-0441	215
MP-3678	262	NM-2018	PA-2064	500	PB-8832	101	PP-0100	211	PP-0542	226	PP-1154	236	PP-4026	271	PS-0442	215
MP-3720	252	NM-2790	PA-2065	500	PB-8850	101	PP-0101	211	PP-0544	226	PP-1158	236	PP-4027	271	PS-0443	215
MP-3722	252	NM-2800	PA-2066	500	PH-9200	287	PP-0103	211	PP-0546	226	PP-1164	236	PP-4028	272	PS-0444	215
MP-3724	252	NM-2801	PA-3500	212	PH-9202	287	PP-0104	211	PP-0580	214	PP-1216	234	PP-4032	274	PS-0445	215
MP-3733	253	NM-2802	PA-3502	211	PH-9203	287	PP-0114	212	PP-0590	229	PP-1226	234	PP-4035	274	PS-0446	215
MP-3735	253	NM-2803	PA-3503	212	PH-9204	288	PP-0116	212	PP-0600	229	PP-1430	227, 344	PP-4036	274	PS-0480	219
MP-3736	253	NM-2804	PA-3504	211	PH-9206	288	PP-0130	212	PP-0602	229	PP-1431	227, 344	PP-4037	274, 299	PS-0481	219
MP-3800	260	NM-2806	PA-3506	212	PH-9209	288	PP-0131	212	PP-0604	229	PP-1432	227, 344	PP-4039	274	PS-0482	219
MP-3802	260	NM-2807	PA-3508	216	PH-9210	288	PP-0132	212	PP-0606	229	PP-1433	227, 344	PP-4040	271	PS-0483	219
MP-3840	261	NM-2810	PA-3510	216	PH-9212	288	PP-0134	212	PP-0607	229	PP-1434	227, 344	PP-4041	272	PS-0484	219
MP-5205	341	NM-2812	PA-3530	214	PH-9216	288	PP-0135	212	PP-0608	229	PP-1435	227, 344	PP-4042	271	PS-0485	219
MP-5207	341	NM-2813	PA-3532	211	PH-9218	288	PP-0136	212	PP-0631	229	PP-1436	227, 344	PP-4043	272	PS-0486	219
MP-5214	341	NM-2814	PA-3534	214	PH-9220	288	PP-0138	212	PP-0632	229	PP-1437	227, 344	PP-4044	271	PS-0489	216
MP-5216	341	NM-2815	PA-3536	212	PH-9221	287	PP-0150	213	PP-0637	230	PP-1438	227, 344	PP-4045	272	PS-0490	216
MP-5224	341	NM-2821	PA-3560	215	PH-9222	288	PP-0151	213	PP-0638	230	PP-1439	227, 344	PP-4046	271	PS-0491	216
MS-4000	158	NM-2823	PA-3562	215	PH-9226	287	PP-0152	213	PP-0639	231	PP-1447	227, 344	PP-4047	272	PS-0492	216
MS-4001	158	NM-2826	PA-3564	215	PH-9230	288	PP-0154	213	PP-0640	230	PP-1453	344	PP-4048	271	PS-0493	216
MS-4001	158	NM-2828	PA-3566	216	PH-9232	288	PP-0156	213	PP-0641	230	PP-1455	344	PP-4049	272	PS-0494	216
MS-4003	158, 268	NM-2831	PA-3570	215	PH-9233	288	PP-0157	213	PP-0643	230	PP-1455	344	PP-4050	272	PS-0495	216
MS-4009	274, 299	NM-2832	PA-3573	222	PH-9234	288	PP-0158	213	PP-0644	230	PP-1912	218	PP-4300	226	PS-0496	216
MS-4013	277	NM-2834	PA-3574	365	PH-9235	288	PP-0159	213	PP-0647	231	PP-1916	218	PP-4302	226	PS-0497	216
MS-4015	274	NM-2836	PA-3575	365	PH-9237	288	PP-0170	213	PP-0648	231	PP-1918	218	PP-5102	251	PS-0498	216
MS-4034	276	NM-2838	PA-3577	222	PH-9238	282	PP-0174	213	PP-0649	231	PP-1970	478	PS-5106	251	PS-0499	216
MS-4040	275	NM-2856	PA-3578	222	PH-9239	288	PP-0175	213	PP-0650	231	PP-1980	266	PS-0010	149	PS-0516	225
MS-4044	269, 444	NM-2860	PA-3580	212	PH-9260	287	PP-0176	213	PP-0651	231	PP-1981	290	PS-0105	211	PS-0518	225
MS-4045	275	NM-2862	PA-3581	212, 401	PH-9261	287	PP-0177	213	PP-0652	231	PP-1982	446	PS-0107	211	PS-0520	225
MS-4048	269, 444	NP-4260	PA-3582	212	PH-9264	287	PP-0178	213	PP-0655	231, 327	PP-1984	446	PS-0109	211	PS-0522	225
MS-4050	275	NS-1434	PA-3583	212	PH-9268	287	PP-0179	213	PP-0657	231	PP-1985	262	PS-0110	211	PS-0524	225
MS-4051	275	NS-1436	PA-3584	212	PH-9270	287	PP-0200	214	PP-0664	228	PP-1986	446, 478	PS-0120	212	PS-0526	225
MS-4055	275	NS-3002	PA-3585	212	PH-9280	287	PP-0204	214	PP-0665	228	PP-1992	478	PS-0122	212	PS-0528	225
MS-4057	275	NS-3005	PA-3586	212	PH-9281	288	PP-0205	214	PP-0667	228	PP-1993	478	PS-0123	212	PS-0531	225
MS-4064	275	NS-3008	PA-3588	214	PH-9282	288	PP-0206	214	PP-0669	231	PP-1995	477	PS-0126	212	PS-0532	225
MS-4066	275	NS-3010	PA-3590	214	PH-9283	288	PP-0209	214	PP-0671	230	PP-1996	478	PS-0132	212	PS-0534	225
MS-4068	275, 298	NS-3013	PA-3591	214	PH-9285	287	PP-0230	214	PP-0672	229	PP-1997	478	PS-0133	212	PS-0536	225
MS-4080	276	NS-3015	PA-3592	214	PH-9288	287	PP-0231	214	PP-0675	231	PP-1998	477	PS-0134	212	PS-0540	225
MS-4082	276	NS-3020	PA-3594	212	PI-6450	149	PP-0232	214	PP-0677	230	PP-2000	477	PS-0139	212		

CATALOGUE NUMBER INDEX INDEXES

PS-0662	231	PS-2022	478	PT-3020	221	PT-4633	237	QC-3842	420	QM-1571	18	QP-2307	445	RC-5364	151	RG-5070	150
PS-0663	231	PS-2024	478	PT-3021	221	PT-4637	232	QC-3844	421	QM-1574	18	QP-2310	30	RC-5380	151	RG-5075	150
PS-0673	229	PS-2026	478	PT-4402	223, 472	PT-4640	232	QC-3846	421	QM-1576	19	QP-2312	286	RC-5399	151	RG-5080	150
PS-0674	229	PS-2028	480	PT-4403	223, 473	PT-4641	232	QC-3848	421	QM-1577	25	QP-5010	33	RC-5480	151	RG-5085	150
PS-0686	229	PS-2046	502	PT-4405	223, 472	PT-4643	232	QC-3860	420	QM-1584	30	QP-5012	33	RC-5482	151	RG-5090	150
PS-0690	229	PS-2051	500	PT-4406	223, 472	PT-4650	232	QC-8017	420	QM-1587	30	QP-5013	33	RC-5486	151	RG-5095	150
PS-0712	228	PS-2053	500	PT-4407	223, 472	PT-4651	232	QC-8024	420	QM-1589	29	QP-5014	33	RC-5490	151	RG-5100	150
PS-0740	235	PS-2056	500	PT-4416	223, 473	PT-4653	232	QC-8027	419	QM-1591	29	QP-5015	33	RC-5494	151	RG-5105	150
PS-0742	235	PS-2080	142	PT-4420	223, 472	PT-4700	237	QC-8028	519	QM-1592	29	QP-5016	33	RC-5496	151	RG-5110	150
PS-0749	219, 366	PS-2082	142	PT-4422	223, 472	PT-4701	237	QC-8029	519	QM-1594	17	QP-5020	33	RC-5498	151	RG-5115	150
PS-0753	219, 366	PS-2092	477	PT-4424	223, 472	PT-4702	237	QC-8033	418	QM-1601	28	QP-5022	33	RC-5499	151	RG-5120	150
PS-0761	219, 366	PS-2096	477	PT-4425	223, 472	PT-4703	237	QC-8034	418	QM-1602	28	QP-5410	34	RD-3480	155	RG-5125	150
PS-0763	219, 366	PS-2120	301	PT-4427	223, 472	PT-4707	237	QC-8035	418	QM-1622	30	QP-5412	34	RD-3485	155	RG-5130	150
PS-0764	219, 366	PS-2122	301	PT-4428	224, 474	PT-4708	237	QC-8037	418	QM-1644	452	QP-5415	34	RE-6020	152	RG-5135	150
PS-0765	219, 366	PS-2126	479	PT-4429	224, 474	PT-4709	237	QC-8038	418	QM-1646	452	QP-5417	34	RE-6032	152	RG-5140	150
PS-0767	219, 366	PS-2128	479	PT-4431	224, 474	PT-4710	237	QC-8039	418	QM-1662	447	QP-5512	33	RE-6034	153	RG-5145	150
PS-0769	219, 366	PS-4002	268	PT-4432	224, 474	PT-4714	237	QC-8040	418	QM-1670	30	QP-5515	33	RE-6042	152	RG-5150	150
PS-0771	219, 366	PS-4006	268	PT-4433	237	PT-4715	237	QC-8042	419	QM-1671	30	QP-5516	33	RE-6044	153	RG-5153	150
PS-0773	219, 366	PS-4008	270	PT-4434	223, 473	PT-4717	237	QC-8044	419	QM-1676	32	QP-5570	34	RE-6045	152	RG-5165	150
PS-0774	219, 366	PS-4013	268	PT-4436	223, 473	PT-4718	237	QC-8045	419	QM-1677	32	QP-5575	34	RE-6058	152	RG-5166	150
PS-0775	219, 366	PS-4015	268	PT-4438	224, 474	PT-4721	237	QC-8046	419	QM-1678	32	QP-5580	34	RE-6060	152	RG-5168	150
PS-0777	219, 366	PS-4040	270	PT-4439	224, 474	PT-4722	237	QC-8048	419	QM-1679	32	QP-5582	480	RE-6062	153	RG-5169	150
PS-0779	219	PS-4046	270	PT-4440	224, 474	PT-4723	237	QC-8050	521	QM-3505	61	QP-5584	480	RE-6066	152	RG-5170	150
PS-0782	228	PS-4051	270	PT-4442	224, 474	PT-4724	237	QC-8052	521	QM-3511	61	QP-5585	34	RE-6070	152	RG-5172	150
PS-0785	225	PS-4055	270	PT-4444	224, 474	PT-4725	237	QC-8054	521	QM-3515	61	QP-5586	34	RE-6075	152	RG-5175	150
PS-0786	228	PS-4057	270	PT-4446	224, 474	PT-4726	237	QC-8056	521	QM-3531	61	QP-5588	34	RE-6078	153	RG-5180	150
PS-0789	211	PS-4060	270	PT-4448	224, 474	PT-4727	237	QC-8058	521	QM-3532	61	QP-6013	26	RE-6079	152	RG-5199	151
PS-0794	219	PS-4062	270	PT-4449	224, 474	PT-4728	237	QC-8059	520	QM-3534	61	QP-6014	26	RE-6080	152	RG-5201	150
PS-0795	219, 366	PS-4063	270	PT-4450	226	PT-4737	232	QC-8060	521	QM-3537	61	QT-2304	26	RE-6090	152	RG-5202	150
PS-0796	219, 366	PS-4064	227	PT-4451	477	PT-4800	238	QC-8062	521	QM-3539	61	QV-3049	408	RE-6092	152	RG-5203	150
PS-0797	219, 366	PS-4066	270	PT-4452	226	PT-4802	238	QC-8066	521	QM-3544	62	QV-3130	403	RE-6095	152	RG-5204	150
PS-0798	219	PS-4067	269	PT-4456	226	PT-4807	238	QC-8068	305	QM-3546	62	QV-3132	403	RE-6100	152	RG-5205	150
PS-0799	219, 366	PS-4069	269	PT-4458	226	PT-4809	238	QC-8070	420	QM-3548	62	QV-3138	404	RE-6110	152	RG-5210	150
PS-0804	234	PS-4071	269, 299	PT-4460	224, 473	PT-4810	238	QC-8076	520	QM-3549	62	QV-3140	405	RE-6122	152	RG-5222	150
PS-0805	234	PS-4072	295	PT-4464	224, 473	PT-4814	238	QC-8078	521	QM-3578	410	QV-3142	406	RE-6125	153	RG-5230	150
PS-0806	234	PS-4075	270	PT-4466	224, 473	PT-4818	238	QC-8080	521	QM-3742	490	QV-3143	408	RE-6130	152	RG-5232	150
PS-0824	234	PS-4077	270	PT-4470	224, 473	PT-4822	238	QC-8082	521	QM-3743	490	QV-3144	405	RE-6140	152	RG-5234	150
PS-0825	234	PS-4092	270	PT-4472	224, 473	PT-4823	238	QC-8084	520	QM-3752	491	QV-3145	405	RE-6150	152	RG-5236	150
PS-0832	234	PS-4094	270	PT-4474	224, 473	PT-4825	238	QC-8086	521	QM-3781	501	QV-3146	406	RE-6156	153	RG-5238	150
PS-0844	234	PS-4095	270	PT-4480	223, 473	PT-4827	238	QC-8088	521	QM-3788	501	QV-3147	409	RE-6157	152	RG-5240	150
PS-0845	234	PS-4097	270	PT-4482	223, 473	PT-4914	238	QC-8090	521	QM-3797	488	QV-3148	407	RE-6158	152	RG-5247	150
PS-0846	234	PS-4100	273	PT-4484	223, 473	PT-4916	238	QC-8091	519	QM-3815	513	QV-3149	409	RE-6160	152	RG-5248	150
PS-0864	234	PS-4102	273	PT-4500	237	PT-4930	238	QC-8092	521	QM-3816	513	QV-3850	488	RE-6180	152	RL-6402	153
PS-0916	228	PS-4104	273	PT-4501	237	PT-4932	238	QC-8093	520	QM-3817	513	QV-3852	487	RE-6188	152	RL-6406	153
PS-0920	228	PS-4105	273	PT-4502	237	PT-4934	238	QC-8094	520	QM-3819	513	QV-3854	487	RE-6190	152	RL-6408	153
PS-0922	228	PS-4106	273	PT-4503	237	PT-4935	238	QC-8095	520	QM-3851	489	QV-3856	488	RE-6194	152	RL-6410	153
PS-0984	236	PS-4107	273	PT-4507	237	PT-4936	238	QC-8096	521	QM-3852	489	QV-3860	487	RE-6195	152	RL-6412	153
PS-0985	236	PS-4108	273	PT-4509	237	PT-4937	238	QC-8098	521	QM-3854	489	QV-8126	409	RE-6210	152	RL-6414	153
PS-0986	236	PS-4110	270	PT-4510	237	PT-4938	238	QC-8099	521	QM-3856	489	QV-8128	409	RE-6220	152	RL-6418	153
PS-0987	236	PS-4115	273	PT-4511	237	PT-4939	238	QC-8631	414	QM-3857	489			RE-6230	152	RL-6420	153
PS-0988	236	PS-4117	273	PT-4512	237	PT-5000	227	QC-8632	405, 411	QM-3860	512			RE-6236	152	RL-6422	153
PS-0989	236	PS-4120	273	PT-4513	237			QC-8633	405, 411	QM-3872	491			RE-6238	152	RL-6424	153
PS-0990	236	PS-4122	273	PT-4514	237			QC-8635	411	QM-3874	491			RE-6240	152	RL-6428	153
PS-1001	226	PS-4124	273	PT-4515	237	QC-1902	25	QC-8636	411	QM-6323	28, 456	RC-5300	151	RE-6241	152	RL-6430	153
PS-1003	226	PS-4125	273	PT-4516	237	QC-1914	25	QC-8637	407, 413	QM-6325	525	RC-5302	151	RE-6243	152	RL-6432	153
PS-1005	226	PS-4130	273	PT-4517	237	QC-1932	24	QC-8639	407, 413	QM-7201	526	RC-5304	151	RE-6244	152	RL-6434	153
PS-1007	226	PS-4134	273	PT-4518	237	QC-1934	24	QC-8641	412	QM-7209	28, 456	RC-5305	151	RE-6245	152	RL-6436	153
PS-1009	226	PS-4140	268	PT-4520	238	QC-3122	414	QC-8642	412	QM-7215	27	RC-5306	151	RE-6250	151	RM-7010	150
PS-1014	217	PS-4142	268	PT-4521	238	QC-3130	312	QC-8643	412	QM-7216	28	RC-5307	151	RE-6300	153	RM-7012	150
PS-1015	217	PS-4144	268	PT-4522	237	QC-3131	414	QC-8645	412	QM-7218	28	RC-5308	151	RE-6302	153	RM-7015	150
PS-1017	217	PS-4152	273	PT-4523	237	QC-3195	113	QC-8646	412	QM-7221	27	RC-5309	151	RE-6304	153	RM-7022	150
PS-1018	217	PS-4155	273	PT-4524	237	QC-3199	113	QC-8647	413	QM-7226	27	RC-5310	151	RE-6306	153	RM-7027	150
PS-1022	217	PS-4157	273	PT-4525	237	QC-3203	333	QC-8649	411	QM-7232	31	RC-5311	151	RE-6308	153	RM-7033	150
PS-1024	217	PS-4160	170	PT-4526	237	QC-3205	333	QC-8650	414	QM-7254	526	RC-5312	151	RE-6310	153	RM-7039	150
PS-1042	216	PS-4182	273, 444	PT-4527	237	QC-3328	416	QC-8652	414	QM-7258	31	RC-5313	151	RE-6312	153	RM-7047	150
PS-1054	216	PS-4184	273, 444	PT-4528	237	QC-3337	416	QC-8653	411	QM-7259	31	RC-5314	151	RE-6314	153	RM-7055	150
PS-1062	216	PS-4186	273, 444	PT-4529	237	QC-3373	32	QC-8654	411	QM-7264	31	RC-5315	151	RE-6316	153	RM-7065	150
PS-1069	217	PS-4301	226	PT-4530	237	QC-3374	32	QC-8656	412	QM-7268	526	RC-5316	151	RE-6318	153	RM-7070	150
PS-1082	218	PS-4303	226	PT-4533	237	QC-3400	424	QC-8658	412	QM-7271	526	RC-5317	151	RE-6320	1		

RN-3417	158	RR-0538	154	RR-0637	154	RR-2822	154	RT-4028	155	RZ-6622	151	SB-2423	279	SF-2116	178	SF-2297	173
RN-3430	140	RR-0539	154	RR-0638	154	RR-2824	154	RT-4029	155	RZ-6624	151	SB-2424	279	SF-2117	178	SF-2300	173
RN-3432	140	RR-0540	154	RR-0639	154	RR-2826	154	RT-4304	155	RZ-6626	151	SB-2425	279	SF-2118	178	SF-2315	173
RN-3434	140	RR-0541	154	RR-0640	154	RR-2828	154	RT-4306	155	RZ-6627	151	SB-2426	279	SF-2119	178	SF-2320	481
RN-3436	140	RR-0542	154	RR-0641	154	RR-2830	154	RT-4308	155	RZ-6628	151	SB-2427	280	SF-2120	178	SF-2321	481
RN-3438	140	RR-0543	154	RR-0642	154	RR-2832	154	RT-4310	155	RZ-6630	151	SB-2467	283	SF-2121	178	SF-2323	481
RN-3440	140	RR-0544	154	RR-0643	154	RR-2834	154	RT-4312	155	RZ-6632	151	SB-2468	284	SF-2122	178	SF-2324	481
RN-3442	140	RR-0545	154	RR-0644	154	RR-2836	154	RT-4314	155	RZ-6636	151	SB-2480	243	SF-2124	178	SF-2325	481
RN-3444	140	RR-0546	154	RR-0660	154	RR-2838	154	RT-4316	155	RZ-6640	151	SB-2482	243	SF-2126	482	SF-2326	481
RN-3460	172	RR-0547	154	RR-0680	155	RR-2840	154	RT-4318	155	RZ-6642	151	SB-2484	243	SF-2127	482	SF-2327	481
RN-3462	172	RR-0548	154	RR-0700	155	RR-2842	154	RT-4320	155	RZ-6645	151	SB-2485	243	SF-2128	482	SF-2330	481
RN-3464	172	RR-0549	154	RR-1500	154	RR-2844	154	RT-4324	155	RZ-6648	151	SB-2486	243	SF-2130	482	SF-2331	481
RN-3466	172	RR-0550	154	RR-1502	154	RR-2846	154	RT-4350	155	RZ-6650	151	SB-2487	243	SF-2132	482	SF-2333	481
RN-3468	172	RR-0551	154	RR-1504	154	RR-2848	154	RT-4352	155	RZ-6655	151	SB-2489	243	SF-2134	482	SF-2334	481
RN-3470	172	RR-0552	154	RR-1506	154	RR-2850	154	RT-4354	155	RZ-6657	151	SB-2490	243	SF-2136	482	SF-2335	481
RP-3500	159, 209	RR-0553	154	RR-1508	154	RR-2854	154	RT-4356	155	RZ-6658	151	SB-2495	243	SF-2137	482	SF-2336	481
RP-3502	159	RR-0554	154	RR-1510	154	RR-2858	154	RT-4358	155	RZ-6665	151	SB-2496	243	SF-2138	482	SF-2337	481
RP-3504	159	RR-0555	154	RR-1512	154	RR-2860	154	RT-4360	155	RZ-6670	151	SB-2497	243	SF-2139	482	SF-2342	481
RP-3508	159	RR-0556	154	RR-1514	154	RR-2862	154	RT-4362	155			SB-2498	243	SF-2141	482	SF-2344	481
RP-3510	159	RR-0557	154	RR-1516	154	RR-2864	154	RT-4364	155	S							
RP-3514	159	RR-0558	154	RR-1518	154	RR-2868	154	RT-4366	155								
RP-3516	159	RR-0559	154	RR-1520	154	RR-2870	154	RT-4368	155	SB-1611	284	SB-2502	282	SF-2143	482	SF-2346	481
RP-3518	159	RR-0560	154	RR-1522	154	RR-3206	154	RT-4370	155	SB-1617	283	SB-2504	282	SF-2146	482	SF-2352	481
RP-3520	159	RR-0561	154	RR-1524	154	RR-3208	154	RT-4372	155	SB-1622	282	SB-2508	282	SF-2148	178	SF-2354	481
RP-3522	159	RR-0562	154	RR-1650	154	RR-3214	154	RT-4600	155	SB-1634	280	SB-2510	282	SF-2152	178	SF-2355	481
RP-3524	159	RR-0563	154	RR-1652	154	RR-3220	154	RT-4602	155	SB-1645	280	SB-2512	282	SF-2153	178	SF-2356	481
RP-3604	159	RR-0564	154	RR-1654	154	RR-3230	154	RT-4604	155	SB-1646	280	SB-2513	282	SF-2154	178	SF-4100	173, 481
RP-3608	159	RR-0565	154	RR-1656	154	RR-3232	154	RT-4608	155	SB-1648	280	SB-2514	282	SF-2155	178	SF-4102	173, 481
RP-3610	159	RR-0566	154	RR-1658	154	RR-3234	154	RT-4610	155	SB-1651	280	SB-2516	282	SF-2156	178	SF-4104	173, 481
RP-3614	159	RR-0567	154	RR-1660	154	RR-3236	154	RT-4612	155	SB-1653	280	SB-2520	282	SF-2157	178	SF-4106	173, 481
RP-3616	159	RR-0568	154	RR-1662	154	RR-3238	154	RT-4614	155	SB-1654	280	SB-2522	282	SF-2158	178	SF-4108	173, 481
RP-3618	159	RR-0569	154	RR-1664	154	RR-3240	154	RT-4616	155	SB-1695	244	SB-2523	282	SF-2159	178	SF-4150	251
RP-3620	159	RR-0570	154	RR-1666	154	RR-3242	154	RT-4618	155	SB-1698	244	SB-2524	282	SF-2160	178	SF-4151	251
RP-3622	159	RR-0571	154	RR-1668	154	RR-3244	154	RT-4620	155	SB-1699	244	SB-2525	282	SF-2161	178	SF-4152	251
RP-3624	159	RR-0572	154	RR-1670	154	RR-3246	154	RT-4622	155	SB-1706	283	SB-2526	282	SF-2162	178	SF-4153	251
RP-3706	159	RR-0573	154	RR-1672	154	RR-3248	154	RT-4640	155	SB-1708	283	SB-2527	282	SF-2163	178	SF-4154	251
RP-3708	159	RR-0574	154	RR-1680	155	RR-3250	154	RT-4642	155	SB-1711	283	SB-2529	282	SF-2164	178	SF-4158	251
RP-3710	159	RR-0575	154	RR-1697	155	RR-3252	154	RT-4644	155	SB-1723	283	SB-2530	282	SF-2166	178	SF-4160	251
RP-3712	159	RR-0576	154	RR-2000	155	RR-3254	154	RT-4646	155	SB-1724	283	SB-2532	282	SF-2167	178	SF-4162	251
RP-3756	159	RR-0577	154	RR-2502	154	RR-3256	154	RT-4648	155	SB-1728	283	SB-2534	282	SF-2168	178	SF-4164	251
RP-3760	159	RR-0578	154	RR-2504	154	RR-3258	154	RT-4650	155	SB-1733	283	SB-2536	282	SF-2169	178	SF-4166	251
RP-3762	159	RR-0579	154	RR-2506	154	RR-3260	154	RT-4652	155	SB-1734	283	SB-2542	282	SF-2170	178	SF-4170	251
RP-3975	159	RR-0580	154	RR-2508	154	RR-3262	154	RT-4654	155	SB-1737	283	SB-2900	279	SF-2172	178	SF-4172	251
RP-7500	159, 209	RR-0581	154	RR-2510	154	RR-3264	154	RT-4656	155	SB-1738	283	SB-2902	279	SF-2173	178	SF-4180	247
RP-7504	159	RR-0582	154	RR-2512	154	RR-3266	154	RT-4658	155	SB-1739	283	SB-2904	279	SF-2174	178	SF-4182	247
RP-7508	159	RR-0583	154	RR-2514	154	RR-3268	154	RT-6600	152	SB-1744	283	SB-2905	279	SF-2175	178	SF-4184	247
RP-7510	159	RR-0584	154	RR-2516	154	RR-3270	154	RU-6602	152	SB-1751	284	SB-2906	279	SF-2176	178	SF-5020	482
RP-7516	159	RR-0585	154	RR-2518	154	RR-3272	154	RU-6604	152	SB-1756	284	SB-2908	279	SF-2177	178	SF-5022	482
RP-7518	159	RR-0586	154	RR-2520	154	RR-3274	154	RU-6606	152	SB-1757	284	SB-2910	279	SF-2178	178	SF-5026	482
RP-7524	159	RR-0587	154	RR-2522	154	RR-3276	154	RU-6608	152	SB-1760	282	SB-2912	279	SF-2179	178	SF-5028	482
RP-7604	159	RR-0588	154	RR-2524	154	RR-3278	154	RU-6700	152	SB-1762	282	SB-2914	279	SF-2182	178	SF-5030	482
RP-7610	159	RR-0589	154	RR-2526	154	RR-3280	154	RU-6705	152	SB-1770	281	SB-2916	279	SF-2184	178	SF-5034	482
RP-7616	159	RR-0590	154	RR-2528	154	RR-3282	154	RU-6708	153	SB-1771	281	SB-2930	283	SF-2186	178	SF-5035	482
RP-7708	159	RR-0591	154	RR-2530	154	RR-3284	154	RU-6709	153	SB-1774	281	SB-2931	283	SF-2188	178	SF-5070	482
RP-7712	159	RR-0592	154	RR-2532	154	RR-3286	154	RU-6710	153	SB-1775	281	SB-2932	283	SF-2189	178	SF-5072	482
RP-7756	159	RR-0593	154	RR-2534	154	RR-3288	154	RU-6712	153	SB-1778	281	SB-2933	283	SF-2190	178	SF-5074	482
RP-8504	159	RR-0594	154	RR-2536	154	RR-3290	154	RU-6720	153	SB-1802	244	SB-2936	283	SF-2192	178	SF-5076	482
RP-8510	159	RR-0595	154	RR-2538	154	RR-3292	154	RV-5714	150	SB-1822	244	SB-2938	283	SF-2194	178	SF-5078	482
RP-8516	159	RR-0596	154	RR-2540	154	RR-3294	154	RV-5716	150	SB-2300	284	SB-2940	282	SF-2196	178	SF-5080	482
RP-8518	159	RR-0597	154	RR-2542	154	RR-3296	154	RV-5718	150	SB-2301	284	SB-2942	282	SF-2198	178	SF-5082	482
RP-8524	159	RR-0598	154	RR-2544	154	RR-3298	154	RV-5720	150	SB-2305	284	SB-2944	282	SF-2200	178	SF-5084	482
RP-8610	159	RR-0599	154	RR-2546	154	RR-3302	154	RV-5722	150	SB-2307	284	SB-2946	282	SF-2201	178	SF-5085	482
RP-8616	159	RR-0600	154	RR-2548	154	RR-3306	154	RV-5728	157	SB-2308	284	SB-2950	282	SF-2202	178	SF-5115	482
RP-8706	159	RR-0601	154	RR-2550	154	RR-3310	154	RY-6802	151	SB-2313	284	SB-2970	280	SF-2204	178	SF-5125	482
RP-8710	159	RR-0602	154	RR-2552	154	RR-3312	154	RY-6804	151	SB-2314	284	SB-2980	281	SF-2206	178	SK-0910	185
RP-8712	159	RR-0603	154	RR-2554	154	RR-3314	154	RY-6805	151	SB-2315	284	SB-2982	281	SF-2208	178	SK-0912	185
RP-8756	159	RR-0604	154	RR-2556	154	RR-3344	154	RY-6806	151	SB-2317	284	SB-9010	283	SF-2210	178	SK-0914	185
RP-8760	159	RR-0605	154	RR-2558	154	RR-3346	154	RY-6808	151	SB-2319	284	SF-0920	187	SF-2226	178	SK-0916	185
RQ-5268	141	RR-0606	154	RR-2760	154	RR-3347	154	RY-6808	151	SB-2320	279	SF-0922	187	SF-2227	178	SK-0920	185
RQ-5271	141	RR-0607	154	RR-2762	154	RR-3348	154	RY-6810	151	SB-2321	279	SF-1909					

CATALOGUE NUMBER INDEX INDEXES

SK-0995	186	SL-2990	394	SL-3988	495	SR-1254	189	ST-3490	458	SZ-2007	179	TD-2459	53	TH-1933	449	TM-3002	102
SK-0997	185	SL-3139	523	SL-3989	495	SR-1256	189	ST-3498	458	SZ-2008	483	TD-2461	100	TH-1934	63	TS-1104	35
SK-0998	186, 266	SL-3140	523	SL-3990	494	SS-0812	188	ST-3499	458	SZ-2009	179	TD-2463	54	TH-1935	51	TS-1105	35
SK-0999	185	SL-3142	523	SL-3992	494	SS-0821	188	ST-3600	393	SZ-2010	179	TD-2468	53	TH-1936	51	TS-1111	35
SL-2206	294	SL-3146	395	SM-1002	187, 430	SS-0823	188	ST-3602	393	SZ-2011	483	TD-2469	53	TH-1939	323	TS-1112	35
SL-2207	294	SL-3148	523	SM-1012	189	SS-0826	188	ST-3604	393	SZ-2012	270, 483	TD-2491	55	TH-1973	482	TS-1113	35
SL-2208	294	SL-3149	326	SM-1013	189	SS-0852	188	ST-3800	172	SZ-2013	483	TD-2493	54	TH-1978	149	TS-1115	37
SL-2209	294	SL-3152	395	SM-1015	189	SS-0900	105	ST-3804	172	SZ-2014	178	TD-2497	55	TH-1980	44	TS-1116	35
SL-2210	294	SL-3200	296	SM-1017	189	SS-0902	105	ST-3808	172	SZ-2015	178	TH-1603	37	TH-1984	49	TS-1117	35
SL-2211	294	SL-3202	296	SM-1018	189	SS-0903	106	ST-3810	172	SZ-2016	178	TH-1604	37	TH-1985	49	TS-1118	35
SL-2212	294	SL-3204	296	SM-1020	189	SS-0905	106	ST-3812	172	SZ-2018	178	TH-1606	37	TH-1986	49	TS-1305	36
SL-2216	294	SL-3206	296	SM-1024	189	ST-0300	183	ST-3814	172	SZ-2019	178	TH-1610	37	TH-1987	44	TS-1306	36
SL-2225	294	SL-3208	296	SM-1027	187	ST-0310	183	ST-3821	173	SZ-2020	179	TH-1620	204	TH-1989	44	TS-1307	36
SL-2227	294	SL-3210	296	SM-1029	187	ST-0335	183	ST-3823	173	SZ-2022	178	TH-1630	37	TH-1991	53	TS-1308	36
SL-2229	294	SL-3211	296	SM-1030	187	ST-0336	183	ST-3825	173	SZ-2023	178	TH-1730	37	TH-1994	53	TS-1310	36
SL-2230	294	SL-3216	296	SM-1031	187	ST-0355	183	ST-3826	173	SZ-2025	179	TH-1732	475	TH-1995	53	TS-1311	36
SL-2231	294	SL-3217	296	SM-1032	187	ST-0356	183	ST-3831	173	SZ-2028	179	TH-1738	51, 343	TH-1996	53	TS-1312	36
SL-2232	294	SL-3221	296	SM-1034	187	ST-0357	183	ST-3833	173	SZ-2029	179	TH-1740	51, 343	TH-1997	53	TS-1313	36
SL-2233	294	SL-3232	434	SM-1035	187	ST-0358	183	ST-3836	173	SZ-2030	179	TH-1743	51, 343	TH-1999	53	TS-1314	36
SL-2234	294	SL-3234	434	SM-1036	188	ST-0365	183	ST-3897	293	SZ-2034	179	TH-1752	58	TH-2000	51	TS-1315	36
SL-2235	294	SL-3238	434	SM-1038	188	ST-0505	183	ST-3899	293	SZ-2036	179	TH-1754	58	TH-2001	51	TS-1316	36
SL-2282	294	SL-3240	467	SM-1039	188	ST-0506	183	ST-3915	462	SZ-2038	178	TH-1755	49	TH-2002	51	TS-1318	36
SL-2283	294	SL-3411	497	SM-1040	188	ST-0546	183	ST-3921	524	SZ-2039	178	TH-1757	52	TH-2003	51	TS-1320	36
SL-2285	294	SL-3412	497	SM-1044	187	ST-0547	183	ST-3927	524	SZ-2040	482	TH-1758	52	TH-2004	51	TS-1321	36
SL-2286	294	SL-3414	497	SP-0380	183	ST-0554	183	ST-3929	524	SZ-2042	482	TH-1760	58	TH-2005	51	TS-1322	36
SL-2300	292	SL-3418	497	SP-0596	181	ST-0555	183	ST-3930	289	SZ-2043	482	TH-1761	58	TH-2006	51	TS-1323	36
SL-2302	292	SL-3441	392	SP-0600	182	ST-0570	183	ST-3932	289	SZ-2044	483	TH-1762	59	TH-2007	51	TS-1324	36
SL-2330	292	SL-3448	463	SP-0601	182	ST-0572	183	ST-3934	290	SZ-2045	483	TH-1763	54	TH-2008	51	TS-1325	36
SL-2332	292	SL-3451	394	SP-0602	182	ST-0574	184	ST-3936	290	SZ-2046	482	TH-1764	54	TH-2009	51	TS-1328	36
SL-2334	292	SL-3452	462	SP-0603	182	ST-0575	184	ST-3938	290	SZ-2047	483	TH-1766	54	TH-2010	51	TS-1331	37
SL-2336	292	SL-3453	394	SP-0604	182	ST-0576	184	ST-3940	463	SZ-2049	483	TH-1768	58	TH-2014	63	TS-1352	40
SL-2338	292	SL-3455	394	SP-0605	182	ST-0577	184	ST-3942	463	SZ-2060	506	TH-1769	54	TH-2127	60	TS-1390	41
SL-2339	292	SL-3456	392	SP-0606	182	ST-0578	184	ST-3944	290	SZ-2065	178	TH-1770	59	TH-2330	49	TS-1391	41
SL-2610	136	SL-3457	497	SP-0607	182	ST-0579	184	ST-3945	294	SZ-2078	483	TH-1772	60	TH-2332	48	TS-1392	41
SL-2612	136	SL-3459	463	SP-0608	182	ST-0580	184	ST-3946	290	SZ-2081	481	TH-1775	59	TH-2334	48	TS-1393	41
SL-2613	136	SL-3460	463	SP-0609	182	ST-0581	184	ST-3948	290	SZ-2083	481	TH-1776	59	TH-2336	49	TS-1394	41
SL-2615	136	SL-3461	463	SP-0610	182	ST-0582	184	ST-3950	291	SZ-2085	481	TH-1780	59	TH-2339	505	TS-1430	38
SL-2616	136	SL-3464	394	SP-0611	182	ST-0583	184	ST-3968	449	SZ-2090	252	TH-1781	59	TH-2500	54	TS-1432	38
SL-2617	136	SL-3469	393	SP-0612	182	ST-0584	184	SY-4004	193	SZ-2092	252	TH-1783	59	TH-2600	208	TS-1434	38
SL-2620	136	SL-3472	463	SP-0613	182	ST-0585	184	SY-4007	193	SZ-2094	252	TH-1800	50	TH-2610	49, 206	TS-1436	38
SL-2622	136	SL-3474	463	SP-0614	182	ST-0586	184	SY-4008	193			TH-1803	50	TH-2611	49, 206	TS-1440	42
SL-2625	136	SL-3476	463	SP-0620	182	ST-0587	184	SY-4009	193			TH-1810	158	TH-2612	49, 206	TS-1441	42
SL-2627	136	SL-3478	463	SP-0621	182	ST-0590	184	SY-4016	509			TH-1812	48	TL-4022	72	TS-1442	42
SL-2630	136	SL-3480	463	SP-0622	182	ST-0592	184	SY-4018	509	TC-2500	31	TH-1815	52	TL-4024	72	TS-1445	42
SL-2632	136	SL-3482	392	SP-0656	180	ST-0594	183	SY-4029	190	TD-2010	60	TH-1816	149	TL-4030	72	TS-1465	38
SL-2633	136	SL-3484	392	SP-0657	180	ST-3083	461	SY-4030	190	TD-2012	63	TH-1817	52	TL-4031	72	TS-1466	38
SL-2635	296	SL-3490	497	SP-0700	181	ST-3085	449	SY-4032	190	TD-2021	56	TH-1818	149	TL-4032	72	TS-1475	38
SL-2636	296	SL-3492	497	SP-0702	181	ST-3102	312	SY-4036	190	TD-2022	55	TH-1820	52, 373	TL-4033	72	TS-1476	38
SL-2640	136	SL-3494	497	SP-0704	180	ST-3136	461	SY-4038	190	TD-2023	55	TH-1824	50	TL-4034	72	TS-1485	38
SL-2642	136	SL-3495	497	SP-0706	180	ST-3137	461	SY-4040	193	TD-2026	55	TH-1827	52	TL-4035	72	TS-1486	38
SL-2644	136	SL-3496	497	SP-0710	181	ST-3139	461	SY-4041	193	TD-2027	60	TH-1828	50	TL-4036	72	TS-1502	44
SL-2645	136	SL-3500	462	SP-0711	181	ST-3146	274	SY-4044	193	TD-2032	56	TH-1829	50	TL-4037	72	TS-1503	44
SL-2646	136	SL-3502	462	SP-0714	181	ST-3152	461	SY-4045	194	TD-2035	56	TH-1831	50	TL-4038	72	TS-1504	44
SL-2647	136	SL-3504	464	SP-0716	180	ST-3153	461	SY-4046	194	TD-2038	56	TH-1832	50	TL-4039	72	TS-1507	44
SL-2650	136, 296	SL-3505	464	SP-0717	180	ST-3154	461	SY-4047	194	TD-2042	55	TH-1833	50	TL-4040	72	TS-1508	44
SL-2652	136, 296	SL-3506	464	SP-0718	180	ST-3181	274	SY-4050	191	TD-2049	56, 507	TH-1834	50	TL-4043	72	TS-1510	44
SL-2654	296	SL-3507	464	SP-0720	182	ST-3193	462	SY-4051	191	TD-2052	57	TH-1838	63	TL-4044	72	TS-1512	44
SL-2656	296	SL-3508	464	SP-0721	182	ST-3205	523	SY-4052	191	TD-2055	56	TH-1841	52	TL-4046	72	TS-1513	41
SL-2658	296	SL-3520	497	SP-0722	182	ST-3206	326	SY-4053	191	TD-2060	55	TH-1842	59	TL-4048	72	TS-1514	41
SL-2659	295	SL-3522	497	SP-0723	182	ST-3209	459	SY-4058	190	TD-2061	55	TH-1843	52	TL-4050	68	TS-1515	41
SL-2670	296	SL-3524	497	SP-0724	182	ST-3211	459	SY-4059	190	TD-2062	55	TH-1845	60	TL-4052	70	TS-1516	41
SL-2671	296	SL-3915	492	SP-0732	181	ST-3213	459	SY-4060	191	TD-2065	55	TH-1846	50	TL-4054	70	TS-1517	41
SL-2673	296	SL-3916	492	SP-0736	182	ST-3230	512	SY-4061	190	TD-2069	56	TH-1848	50, 238	TL-4060	70	TS-1518	41
SL-2674	296	SL-3917	493	SP-0741	180	ST-3231	512	SY-4062	190	TD-2070	56	TH-1849	50	TL-4062	70	TS-1519	41
SL-2675	296	SL-3918	493	SP-0743	180	ST-3232	512	SY-4064	193	TD-2081	31	TH-1850	43	TL-4070	70	TS-1520	41
SL-2680	296	SL-3919	493	SP-0745	180	ST-3262	464	SY-4065	193	TD-2082	31	TH-1856	43	TL-4072	70	TS-1535	39
SL-2681	296	SL-3920	494	SP-0747	180	ST-3267	449	SY-4066	190	TD-2089	60	TH-1857	43	TL-4076	69	TS-1536	39
SL-2683	296	SL-3921	494	SP-0748	182	ST-3270	464	SY-4067	190	TD-2105	56	TH-1860	43	TL-4090	70	TS-1538	39
SL-2684	296	SL-3922	494	SP-0749	180	ST-3272	464	SY-4068	194	TD-2106	56	TH-1861	43	TL-4100	69	TS-1540	38
SL-2685	296	SL-3923	493	SP-0751	180	ST-3274	464	SY-4069	194	TD-2109	57, 334	TH-1862	43	TL-4103	72	TS-1542	38
SL-2690	136, 296	SL-3925	442, 493	SP-0755	181	ST-3295	511	SY-4070	194	TD-2115	57	TH-1863	43	TL-4104	72	TS-155	

535

CATALOGUE NUMBER INDEX INDEXES

YN-8036	228, 344	YT-6042	345	ZC-4056	147	ZD-0164	133	ZD-0744	499	ZL-3755	146	ZR-1162	158	ZS-5274	145	ZV-1535	140
YN-8037	345	YT-6043	345	ZC-4060	147	ZD-0166	133	ZD-0746	499	ZL-3756	146	ZR-1164	158	ZS-5373	145	ZV-1539	140
YN-8038	344	YT-6044	345	ZC-4066	147	ZD-0169	133	ZD-0748	499	ZL-3833	146	ZR-1168	158	ZS-5804	145	ZV-1542	140
YN-8039	344	YT-6045	346	ZC-4069	147	ZD-0170	133	ZD-0749	499	ZL-3835	146	ZR-1170	158	ZS-5806	145	ZV-1545	140
YN-8046	343	YT-6047	345	ZC-4070	147	ZD-0172	133	ZD-0750	499	ZL-3860	146	ZR-1175	158	ZS-5807	145	ZV-1560	140
YN-8047	322	YT-6049	345	ZC-4071	147	ZD-0174	133	ZD-0752	499	ZL-3900	146	ZR-1177	158	ZT-2110	143	ZV-1562	140
YN-8048	343	YT-6052	346	ZC-4073	147	ZD-0176	133	ZD-0754	499	ZL-3914	146	ZR-1180	158	ZT-2112	143	ZV-1564	140
YN-8050	344, 366	YT-6054	346	ZC-4075	147	ZD-0178	133	ZD-1690	134	ZL-3915	146	ZR-1304	140	ZT-2115	143	ZV-1565	140
YN-8052	344, 366	YT-6055	345	ZC-4076	147	ZD-0180	133	ZD-1692	134	ZL-3930	146	ZR-1308	140	ZT-2116	143	ZV-1610	140
YN-8054	344, 366	YT-6056	346	ZC-4077	147	ZD-0182	133	ZD-1694	134	ZL-3936	146	ZR-1314	140	ZT-2118	144	ZV-1615	140
YN-8056	344, 366	YT-6057	346	ZC-4081	147	ZD-0185	133	ZD-1702	136	ZL-3958	146	ZR-1320	140	ZT-2121	144	ZV-1620	140
YN-8057	366	YT-6058	345	ZC-4093	147	ZD-0190	133	ZD-1704	136	ZL-3970	146	ZR-1324	140	ZT-2150	143	ZV-1624	141
YN-8058	344, 366	YT-6059	345	ZC-4094	147	ZD-0192	133	ZD-1785	134	ZL-3971	146	ZR-1350	140	ZT-2152	143	ZV-1630	140
YN-8059	366	YT-6060	345	ZC-4502	147	ZD-0195	133	ZD-1790	133	ZL-3972	146	ZR-1360	140	ZT-2154	143	ZV-1634	140
YN-8071	322	YT-6062	345	ZC-4510	147	ZD-0200	134	ZD-1850	135	ZL-3974	146	ZR-1362	140	ZT-2156	143	ZV-1635	140
YN-8073	319	YT-6064	345	ZC-4511	147	ZD-0201	134	ZD-1855	135	ZL-3976	146	ZR-1398	139	ZT-2160	143	ZV-1636	140
YN-8075	330	YT-6068	346	ZC-4514	147	ZD-0202	134	ZD-1856	135	ZL-3995	146	ZR-1399	139	ZT-2162	143	ZV-1637	140
YN-8077	321	YT-6070	346	ZC-4516	147	ZD-0205	134	ZD-1857	135	ZM-9012	112	ZR-1400	139	ZT-2164	143	ZV-1640	140
YN-8078	321	YT-6080	345	ZC-4518	147	ZD-0206	134	ZD-1880	136	ZM-9020	248	ZR-1401	139	ZT-2166	143	ZV-1642	140
YN-8081	330	YT-6081	345	ZC-4520	147	ZD-0210	134	ZD-1882	136	ZM-9024	248	ZR-1402	139	ZT-2168	143	ZV-1644	140
YN-8200	323	YT-6082	346	ZC-4528	147	ZD-0211	134	ZD-1886	136	ZM-9026	248	ZR-1403	139	ZT-2170	144	ZV-1645	140
YN-8201	323	YT-6086	345	ZC-4538	147	ZD-0212	134	ZD-1900	137	ZM-9050	469	ZR-1404	139	ZT-2179	143	ZV-1646	140
YN-8202	323	YT-6087	345	ZC-4543	147	ZD-0215	134	ZD-1901	137	ZM-9051	469	ZR-1405	139	ZT-2180	143	ZV-1650	140
YN-8203	323	YT-6090	322, 346	ZC-4553	147	ZD-0220	134	ZD-1902	137	ZM-9052	469	ZR-1406	139	ZT-2187	143	ZV-1652	140
YN-8204	323	YT-6091	346	ZC-4800	145	ZD-0225	134	ZD-1904	137	ZM-9085	249	ZR-1407	139	ZT-2188	143	ZV-1676	140
YN-8205	323	YT-6093	346	ZC-4802	145	ZD-0230	134	ZD-1920	137	ZM-9087	249	ZR-1408	139	ZT-2189	143	ZV-9998	66, 145
YN-8206	323	YT-6099	346	ZC-4804	145	ZD-0232	134	ZD-1928	137	ZM-9088	249	ZR-1409	139	ZT-2190	143	ZW-3100	138
YN-8207	323	YX-2500	166	ZC-4808	145	ZD-0234	134	ZD-1934	137	ZM-9091	249	ZR-1410	139	ZT-2192	143	ZW-3102	138
YN-8208	323	YX-2501	166	ZC-4810	145	ZD-0240	134	ZD-1940	137	ZM-9093	249	ZR-1411	139	ZT-2193	143	ZX-7006	141
YN-8211	323	YX-2502	166	ZC-4811	145	ZD-0242	134	ZD-1941	137	ZM-9094	249	ZR-1412	139	ZT-2198	143	ZX-7010	141
YN-8212	323	YX-2503	166	ZC-4821	145	ZD-0244	134	ZD-1945	138	ZM-9095	249	ZR-1413	139	ZT-2199	143	ZX-7012	141
YN-8221	323	YX-2504	167	ZC-4823	145	ZD-0245	134	ZD-1946	138	ZM-9097	249	ZR-1415	139	ZT-2200	143	ZX-7141	141
YN-8222	323	YX-2505	167	ZC-4826	145	ZD-0247	134	ZD-1947	138	ZM-9133	469	ZR-1416	139	ZT-2202	143	ZX-7145	141
YN-8231	323	YX-2508	169	ZC-4827	145	ZD-0248	134	ZD-1948	138	ZM-9134	470	ZR-1418	139	ZT-2222	143	ZX-7147	141
YN-8232	323	YX-2509	169	ZC-4828	145	ZD-0249	134	ZD-1950	138	ZM-9149	248	ZR-1420	139	ZT-2225	142	ZX-7149	141
YN-8272	323	YX-2510	169	ZC-4829	145	ZD-0250	134	ZD-1952	138	ZM-9150	248	ZR-1422	139	ZT-2227	143	ZX-7192	141
YN-8274	323	YX-2511	170	ZC-4830	145	ZD-0252	134	ZD-1953	138	ZM-9151	248	ZR-1424	139	ZT-2228	143	ZZ-8148	148
YN-8275	323	YX-2512	167	ZC-4832	145	ZD-0255	134	ZD-1955	138	ZM-9152	248	ZR-1427	139	ZT-2230	143	ZZ-8149	148
YN-8292	323	YX-2513	167	ZC-4834	145	ZD-0256	134	ZD-1965	134	ZM-9153	248	ZR-1430	139	ZT-2231	143	ZZ-8465	148
YN-8293	323	YX-2514	169	ZC-4835	145	ZD-0260	133	ZD-2000	135	ZM-9154	248	ZR-1433	139	ZT-2235	143	ZZ-8471	148
YN-8294	323	YX-2515	170	ZC-4837	145	ZD-0270	134	ZD-2005	135	ZM-9156	248	ZR-1436	139	ZT-2236	143	ZZ-8480	148
YN-8295	323	YX-2516	169	ZC-4840	145	ZD-0290	133	ZD-2010	135	ZM-9200	247	ZR-1439	139	ZT-2237	143	ZZ-8485	148
YN-8296	323	YX-2517	169	ZC-4842	145	ZD-0291	133	ZK-8814	148	ZM-9202	247	ZR-1440	139	ZT-2255	143	ZZ-8500	148
YN-8297	323	YX-2518	168	ZC-4844	145	ZD-0292	133	ZK-8821	142	ZM-9300	470	ZR-1450	139	ZT-2260	143	ZZ-8510	148
YN-8298	323	YX-2520	169	ZC-4846	145	ZD-0293	133	ZK-8822	148	ZM-9301	471	ZR-1475	139	ZT-2262	142	ZZ-8520	148
YN-8299	323	YX-2521	168	ZC-4848	145	ZD-0295	133	ZK-8824	148	ZM-9303	471	ZR-1480	139	ZT-2266	142	ZZ-8530	148
YN-8307	318	YX-2522	168	ZC-4849	145	ZD-0373	292	ZK-8830	148	ZM-9306	471	ZS-5000	145	ZT-2270	143	ZZ-8540	148
YN-8309	318	YX-2523	168	ZC-4850	145	ZD-0380	498	ZK-8831	148	ZM-9310	470	ZS-5001	145	ZT-2275	143	ZZ-8550	148
YN-8311	318	YX-2525	170	ZC-4853	145	ZD-0381	498	ZK-8837	148	ZM-9314	471	ZS-5002	145	ZT-2277	142	ZZ-8552	148
YN-8313	318	YX-2532	168	ZC-4855	145	ZD-0382	498	ZK-8850	148	ZM-9904	144	ZS-5004	145	ZT-2278	143	ZZ-8560	148
YN-8325	320	YX-2542	168	ZC-4856	145	ZD-0384	498	ZK-8855	148	ZP-9100	142	ZS-5005	145	ZT-2280	143	ZZ-8570	148
YN-8326	319	YX-2550	170	ZC-4857	145	ZD-0385	498	ZK-8858	148	ZP-9102	142	ZS-5008	145	ZT-2283	144	ZZ-8575	148
YN-8327	320	YX-2552	170	ZC-4858	145	ZD-0386	498	ZK-8862	148	ZP-9104	142	ZS-5010	145	ZT-2284	144	ZZ-8600	148
YN-8328	318	YX-2554	170	ZC-4862	145	ZD-0390	498	ZK-8864	148	ZR-1001	139	ZS-5011	145	ZT-2285	143	ZZ-8602	148
YN-8329	321	YX-2570	170	ZC-4864	145	ZD-0391	498	ZK-8866	148	ZR-1003	139	ZS-5014	145	ZT-2286	143	ZZ-8603	148
YN-8335	318	YX-2572	170	ZC-4865	145	ZD-0392	498	ZK-8870	148	ZR-1004	139	ZS-5020	145	ZT-2287	143	ZZ-8605	148
YN-8340	320	YX-2574	170	ZC-4867	145	ZD-0394	498	ZK-8874	148	ZR-1005	139	ZS-5027	145	ZT-2289	143	ZZ-8700	147
YN-8342	320	YX-2580	170	ZC-4869	145	ZD-0395	498	ZK-8876	148	ZR-1007	139	ZS-5030	145	ZT-2290	143	ZZ-8710	147
YN-8348	319	YX-2582	170	ZC-4870	145	ZD-0396	498	ZK-8879	148	ZR-1008	139	ZS-5032	145	ZT-2291	143	ZZ-8726	81, 147
YN-8352	322	YX-2584	170	ZC-4872	145	ZD-0461	289	ZL-3070	146	ZR-1009	139	ZS-5042	145	ZT-2292	143	ZZ-8742	147
YN-8356	322	YX-2588	338	ZC-4874	145	ZD-0519	498	ZL-3071	146	ZR-1014	139	ZS-5047	145	ZT-2293	143	ZZ-8750	147
YN-8365	317			ZC-4875	145	ZD-0552	289	ZL-3072	146	ZR-1015	139	ZS-5048	145	ZT-2294	143	ZZ-8753	147
YN-8368	319			ZC-4880	145	ZD-0564	293	ZL-3074	146	ZR-1017	139	ZS-5073	145	ZT-2297	142	ZZ-8755	147
YN-8369	317	ZC-4001	147	ZC-4890	145	ZD-0566	293	ZL-3084	146	ZR-1018	139	ZS-5074	145	ZT-2298	143	ZZ-8760	147
YN-8407	321	ZC-4007	147	ZC-4892	145	ZD-0570	291	ZL-3301	146	ZR-1020	139	ZS-5075	145	ZT-2299	143	ZZ-8765	147
YN-8409	325	ZC-4009	147	ZC-4895	145	ZD-0572	291	ZL-3308	146	ZR-1021	139	ZS-5076	145	ZT-2300	143	ZZ-8770	147
YN-8410	322	ZC-4011	147	ZC-4914	147	ZD-0575	290	ZL-3311	146	ZR-1023	139	ZS-5085	145	ZT-2320	143	ZZ-8772	147
YN-8412	321	ZC-4012	147	ZD-0010	134	ZD-0577	290	ZL-3319	146	ZR-1024	139	ZS-5086	145	ZT-2322	143	ZZ-8800	142
YN-8426	311, 336	ZC-4013	147	ZD-0012	134	ZD-0579	290	ZL-3324	146	ZR-1025	139	ZS-5090	145	ZT-2324	143	ZZ-8900	149
YS-2800	447	ZC-4015	147	ZD-0020	134	ZD-0585	499	ZL-3334	146	ZR-1							

Numerical

0 Gauge Power Cable	202	Right Angle RCA	216	Anemometer	452	Baluns & Formers	156	Binding Posts	220, 252
12V Car Accessories	446-451	SCART	214	Antenna		Banana Plugs	220	Bi-Polar Capacitors	151
15A Mains Extension Leads	273	SMA	229	Broadband	306	Bar Graphs, LED	136	Blackbox Event Recorders	487-489
15A Tinned DC Cable	202	S-Video	222	Car Radio	502	Barrel Switches	187	Blacklight	
17" Monitor	410	Telephone	345-346	Caravan	444	Barrier Terminals	233	Fluorescent Tubes	395
19" Rack Cabinets/Equip	342-343	Trailer	500	CB	442	Base - CB Antenna	442	Torch	395
2 Gauge Power Cable	202	TOSLINK	365	Digital	368-370	Batteries		Blade	
2 Wire Home Alarm System	428	Travel	271	FM	368	Alkaline	279	Fuse Holders	482
2.4GHz		TV	230	Indoor TV	368	Button	282	Fuses	482
Audio Sender / Receiver	399	USB	327, 329	LAN	321	Camera Lithium	281	Blood Pressure Monitor	526
AV Sender / Receiver	356	Adhesives		TV	368-370	Car Remote	280	Blower Fans	168
Antennas	321	Double Sided	47	Antenna Rods & Coils	156	Computer Backup	281	Blowtorches	37
Digital Surveillance Kits	422-423	Electrical Tape	46	Antifoiling Ultrasonic for Boats	514	Cordless Phone	280	Bluetooth®	
Home Automation	315-316	Epoxy	46	Anti-Corrosive Solder Flux	43	Deep Cycle SLA	244	Audio Transmitter / Receivers	399
Keyboards & Mice	334-335	Insulation Tape	46	Antistatic		Eclipse	279	Car Kit	305
RC Planes & Vehicles	515-517	Silicon Rescue	47	Desk Mats	59	Eneloop	283	Computer Dongle	319
Reversing Camera	488-490	Spray On	45	Hand Lotion	49	Gel Cell	244	Headphones	402
Video Doorphones	424	Super Glue	46	Insertion Foam	145	Lantern	280	Headset	401
Wireless Networking	317-321	Wire Glue	103	Wrist Straps	59	Lead Acid / Gel	243	Keyring Locator	306
Wireless Tracker	306, 436	ADSL		Arduino Compatible		LiFePO4	284	Receiver for Smartphones	399
240V (Mains)		Line Filter	346	3D Printer Kit	69	Lithium	281-282	Selfie Stick	305
Cable	200	Modems	320	Audio	96	Lithium Iron Phosphate	284	Speakers	310
Carbon Meter	278	Aerosols	45	Boards	80-82	Nickel Cadmium Ni-Cd	284	Blu-Ray Discs	337
Extension Leads	273	AGM Deep Cycle Battery	244	Books - See Book Index	79, 81, 95	Nickel Metal Hydride Ni-MH	283	BNC	
EMI Filter	158	Air		Communications	82-84	Panasonic Brand	279, 283	Adaptors	231
Fans	169	Compressor	451	Data Storage	90	Pre-charged Rechargeable	283	Connectors	231
GPO	269-270	Duster	45	Displays	97-99	Rechargeable	283	Crimp Tool	50
Junction Boxes	270	Horn - Rechargeable	461	Experimenters Kit	78	Sealed Lead Acid	243	Leads	363, 415
Mounting Blocks	270	Aircon Remote Control	358	Microcontroller IC	147	SLA	243	Terminator - 50 Ohm	231
Plugs & Sockets	268-270	Aircraft Style Switch	184	Motor Modules	94	Sub C	284	Bobbin & Pot Core	157
Power Leads	270, 273	Alarm		Power Modules	94	Telephone	280	Bolts & Nuts	209
Power Meter	278	2 Wire Technology	428	Programmer Modules	82	USB Rechargeable	284	Book	
Power Point	270	Wireless	426	Prototyping Accessories	84, 101	Watch	282	Lights	523
RCD Safety Switch	277	Car	510	Sensors	87-89	Battery		Safe	523
Surface or Panel Socket	270	Keyswitch	187	Arrester - Gas Discharge type	158	Backup Siren	511	Books - See Book Index	545
Switches	183-186	Numeric Keypad	434	ATMEL Microcontrollers	147	Banks	244	Boot Release Solenoid	510
Timer	277	Personal	435	Attaché Cases	65	Box	247	Boots - RJ45	227, 344
Transformers	174-177	Power Supplies	428	Attenuator		Cable - Car	202	Boxes	
3D Pen - Free Style	68	Reed Switches	430	Speaker	381	Chargers - SLA	242	ABS	161-164
3D Printer		Shock Sensor	430	TV	374	Chargers - Small	285-286	Aluminium	165
Controller Module	72	Sirens	431	Audio		Chargers - Vehicle	239-242	Battery	247
Filaments - Standard Colours	70	Stickers	428	Adaptors	211-217	Clamp	247	Bulkhead	162
Filaments - Exotic Finishes	71	Tamper Switch	187	Cable	196	Clips	476	Diecast	165
Kit for Arduino	69	Wireless	426-429	Connectors	211-221	Condition Monitor	507	Polycarbonate	163
Parts	72	Alarms & Accessories	426-435	Leads	361-362	Conditioner for Lead Acid	247	Snap Fit	162
Pre-Built	69-70	Alcohol		Level Converter	501, 505	Containers	287	Useless	522
3G SDI to HDMI Converter	352	Breath Testers	451	Mixers	392	Disconnects	245	BP Connectors	270
4 Gauge Power Cable	202	Cleaning Pads	103	Speakers	378-384	Holders / Snaps	287-288	Bracket Link Remover	63
4K UHD HDMI Equipment	347-355	Isopropyl	45	Switchers	360	Isolator Switch	245	Brackets	
5GHz Wireless Networking	317-321	Sensor - Arduino	92	Audio / Video		Lantern	280	Battery	247
5.8GHz		Alkaline Batteries	279	Senders / Receivers	360	Monitors - Car	507	Computer Monitor	332
AV Sender / Receiver	356	Allen Key Set	57	Switchers	360	Monitors - DC	246	Plaster	270, 367
75 Ohm Coaxial Cable	198	Alligator		Auto Iris Lens - Cameras	412	Multi-State Chargers	239-242	Solar	250
8 Gauge Power Cable	202	Clip Leads	476	Automotive		Soldering Iron	39	Speaker	377
80 Ch UHF Transceivers	438-441	Clips	476	Battery Terminals	246, 475	Switches	245	TV	375-376
802.11ac Computer Equip	317-321	Alpha Numeric Keypad	189	Cable	202	Terminals - Car	246, 475	Braided Wrap	205
		Alternator Checker	507	Fuses	482	Testers	286, 486	Breadboard Jumper Kit	101
		Aluminium		Globes, LED	498	Tray	247	Breadboards	
		Boxes	165	Lighting	492-500	Battery Chargers		Prototyping	101
		Sheet	102	Plug / Sockets Multi-way	475	Car	239-242	The Ultimate	100
		Tool Cases	65	Relays	194	Cell Phone	297-302	Breath Testers, Alcohol	451
		Torches	457-458	Tachometer	507	For RC Cars, Cordless Drills etc	286	Bridge Rectifiers	140
		Ammonium Persulphate	102	Terminal Blocks	483, 506	Li-ion	286	Broadband	
		Amorphous Solar Panels	248	Tester	507	Ni-Cd	285	Antenna	306
		Amphenol Cannon Plugs	216	Voltmeters	34, 507	Ni-MH	285	Router	320
		Amplified		AV		SLA	242	Bubble Making	
		HDMI Leads	354	Baluns	360	Solar	469	Kit	522
		Speakers	390-391	Distribution Amplifier	360	Universal	286	Machine	395
		TV Antennas	368	Leads	364	Beads - Ferrite	156	Bulkhead Boxes	162
		Amplifiers		Senders / Receivers	356	BELDEN TV Coax	198	Bullbar	
		Home Hi-Fi	380	Switchers	360	Bell		Antenna Bracket	442
		PA	380	AVR Microcontrollers	167	Pushbutton	181	Light Mounts	442, 493
		Rack Mount	380	Axial Fans	146-170	Wire	199	Bull Nose Pliers	49
		TV Masthead	371-372			Bellboxes	427	Bulldog Clips	476
		Video Distribution	360			Bench		Bullet	
		Analogue Multimeter	20			Magnifier Lamps	61-62	Cameras	411-414
		Anderson Connectors	472-474	Backshells (D Connector)	234	Power Supplies	260	Connectors	237
		Android		Backup Battery Siren	511	Vice	54	Burglar Alarms	426-429
		Arduino Compatible	82	Balanced		Benchtop		Bus Bar	270, 506
		Fish Finder	512	Microphone	386	Antistatic Mat	59	Bushes - Transistor	144
		HDMI Display Receiver	359	XLR Leads	362	Work Mat	55, 58	Business Card Scanner	312
		Hub & Dock	307	Ball Bearing Fans	166-170	Bezels, LED	136	Butane	
		MHL Converter	309	Balloon Powered Helicopter	112	Bicycle		Gas	45
		Mirror Cable	311	Baluns		Air Horn	461	Gas Irons	36
		OTG Flash Drives	307	AV	357	Lights	459, 461	Butt Connectors	237
		pcDuino Kit	73	Camera	415	Binary Coded		Button Batteries	282
		Photo Printer	311	HDMI	415	DIL Switch	189	Buzzers	195
		Plug-In Sensors	32	TV Antenna	374	Pushwheel Switch	189		
		Programming Book	79, 95	USB	327				
				VGA	360				

PRODUCT INDEX INDEXES

C		Capacitors		Carbon Steel Tools	48	Chocolate Terminal Blocks	232	Computer	
Cabinet		Bipolar	151	Card Readers	335-336	Chokes		Accessories	326-339
Corners	385	Ceramic	151	Cardioid Microphone	386	EMC / RFI Chokes	156	Adaptors	329
Handles	385	Crossover	150, 152	Carry Cases	65	High Frequency Ferrite	156	Backshells	234
Rack Mount	342	Electrolytic	151-153	Case		RF	156	Batteries	281
Subwoofer - Built	380	Low ESR	153	Hard Disk	338	Chrome Bezels	136	Brackets Monitor	332
Cable		High Voltage Electrolytic	153	Multimeter	22	Chuck - Drill	60	Cables	200
Alarm	199	Low Impedance	153	Attaché	65	Cigarette Lighter		CD-R Blank Media	337
Audio	196	Low Leakage Electrolytic	153	Compact Disk	337	Smartphone Chargers	300	Converters	324, 330
Automotive	202	Mains	150	Cassette		Lead	477-479	D Connectors	234
Cat5e	200	Metallised Polypropylene	150	Player Encoder	395	Plugs	477	Disks	337
Cat6	200	MKT Style	150	Cat5		Power Supplies	262, 340	DVD Maker	312
CCTV	199	Monolithic Type	151	Baluns	415	Soldering Iron	39	DVD Blank Media	337
Clips, Clamps, Mounts	210	Motor Start	152	Boots	227, 344	Splitters	479	Ethernet Cables	323
Coax	198	Mylar	150	IP67 RJ45 Connectors	344	Circuit Board Cleaner	45	Gadgets USB	522
Communication	199	PC Mount RB Electrolytic	152	Keystone Flush Plates	227, 344	Circuit Board Lacquer	45	Hard Disk Case	338
Computer	200	Polyester	150	Keystone Jack	228, 344	Circuit Breaker		Headphones	401
Ducting	206	Prototype Packs	151	Keystone Surface Box	228, 344	Automotive	481	Headset	401
Foxtel Approved	198	Tantalum	151	Plugs	227, 344	Chassis Mount	173, 481	Hubs	335
Glands	207	Trimmer	150	Punch Down Tools	51, 343	DIN Mount	251	IDC Connectors	236
Joiners - Gold	506	Tuning	157	Testers	323	Fuses	481	Keyboard	334
Mains 240V	200	Captive Nuts, Rack Case	209	UTP Splitter	322, 346	Mains	251	Keyboard & Mouse Set	334
Microphone	199	Car		Cat5e		Panel Mount	173, 481	KVM Switch	330
Ribbon	200	Aerial Extension Leads	502	Cable	200	PCB Mount	173	Leads	324-328
Shears	52	Alarm	510	Coupler	345	Solar System	251	Mice	335
Solar Power UV Stable	203, 249	Alarm Batteries	280	Patch Leads	323	Circuit Tester	507	Microphone Headset	401
Speaker	196	Alarm Remotes - Learning	510	Plugs	227, 344	Clamp Meters AC/DC	21	Microphones	333
Strippers	52	Antennas	502	Cat6		Clamps - Cable	210	Mouse Mat	335
Telephone	199	Audio Power Connector	503, 506	Cable	200	Class 10 SD Cards	336	Network Adaptors	318
Testers - Network	323	Audio System Tester	378	Leads	323	Class D Amplifier		Plugs - D Type	234
Testers - Roadies	29	Battery Chargers	239-242	Cat6a Cables	323	Arduino	96	Power Cables & Leads	273
Ties, Mounts	208	Battery Clips	476	Cathode Ray Oscilloscopes	24	Kit	123	Power Plugs	268
Tracer	323	Battery Solar Charger	469	CB		PA	380	Service Tools	57
Trailer	203, 500	Battery Terminals	246, 475	Aerials & Bases	442	Cleaner		Speakers	333
Video	197	Boot / Hatch Release	510	Pocket Transceivers	438	CD / DVD	338	Switches	330
Cables		Central Door Locking	510	UHF Transceivers	438-441	Circuit Board	45	Travel Cable Kit	353
Audio	361-362	Cigarette Lighter Socket	477	VHF Transceivers	443	LCD Screen	377	VGA to Video Converter	330
Cloverleaf Mains	273	Circuit Breakers	173, 481	CCD Cameras	411-414	Phone Screen	306	Video Splitter	330
Concord	354, 364	Circuit Tester	507	CCTV		Ultrasonic	62	Concord	
Disk Drive	338	Coaxial Speakers	503-504	Baluns	415	Cleaning		AV Leads	364
Ethernet	323	Communication Speaker	441	Brackets	416	Pads Alcohol	103	Fibre Optic Leads	365
IEC Mains	268, 273	Connectors - Gold	506	Cable	199	Solvent	45	HDMI Leads	354
Mains Extension	273	Converters - Voltage	262, 264	DIY Packages	403-407	Wipes	103	Concrete Cable Tie Mounts	208
Video	364	Daytime Running Lamps	497	Digital Video Recorders (DVR)	408	Clips		Condenser - Car	505
Cage Clamp Connector	232	DDMM	16	Dummy Cameras	417	Alligator	476	Conductive	
Calculator	523	Event Recorder	487-489	External Housing	416	Cable	210	Brush	59
Calipers	31	Flasher Relays	509	Infrared Spotlights	416	Crocodile	476	Foam	145
Camera		Fuses	482	Installation Guide Book	417	Clock movement	110	Pen - Silver	103
Batteries	281	Globes	498	Leads	415	Clocks		"Condura" Rocker Switch	185
Brackets - Sports	521	Headlight Kit HID	497	Monitors	410	Alarm	524	Connectors	
Brackets - Surveillance	416	Head Units	501	Mounting Brackets	416	Desktop / Wall	524	D Type	234
Detector	416	Heads Up Displays	508	Power Supply	415	Kit for Kids	110	DB9	234
Dome Case	416	Hi to Lo Stereo Converter	505	Video Intercom	424	Potato	112	F Type	230
Hidden Mirror	414	Hotline Filters	505	CCTV Cameras		with Camera	420	FME Type	228
Peephole Viewer	425	In-Dash Multimedia Players	501	Bullet	411-414	with Thermometer	456, 524	Anderson	472-474
Pen	420	Inverters	254-259	CCD	411-414	Closed / Open Frame Power	263-264	Automotive Multi-way	475
Reversing	488-490	Jump Starters	484-486	CMOS	411-414	Cloth - Speaker	385	Battery	246, 475
Security with Mini DVR	422	LED Work Light	464	Dome	411-413	Cloverleaf Mains Lead	273	BNC	231
Spy Watch	420	Lighting	492-500	I.R. Illuminated	411-414	CMOS		Cannon	216
Time Lapse	418	Line Isolation Transformer	505	Pinhole	414, 420	Cameras	411-414	Car Audio Power	503, 506
Wildlife	419	Monitors - LCD	491	Power Supply	415	ICs	145-147	DC Power	225
Wireless	421-423	Multimeter	16	Replacement Leads	415	Coax		Deans Style	226
Cameras		Noise Filters	505	Wireless Digital	422	Cable	198	EC3	226
Bullet	411-414	Radio Antenna Plugs	502	CD		Cable RG316 Preassembly	229, 365	Ferrule Crimp	237
CCD	411-414	Radio Antennas	502	Cases	337	Connectors	228-231	HDMI	353
CMOS	411-414	R/C	515	Player Drive Belt	398	Crimping Tools	50	Header	236
Covert Surveillance	414, 420	RCA Leads	362	Recordable	337	Joiner	230	High Current	223, 226
Dummy	417	Relays	194	Rewritable	337	Sealing Tape	46, 367	IDC	236
Field / Outdoor	419	Remote Control Switches	509	CD-R Discs	337	Stripper	52	IP67 Audio	211, 217
Inspection	33	Reversing Cameras	488-490	Bracket - TV	376	Coaxial		IP67 D Type	234
IP	420	Sirens	511	LED Lights	292-294	Car Speakers	503-504	IP67 Multi-way	226
Outdoor DVR	419	Sound Deadening	385, 502	Portable Fan	448	Leads	363, 374	IP67 PV Connectors	251
Pinhole	414, 420	Speaker Terminals	221	Speakers	381-382	Coffee Heater	447	IP67 RJ45	227, 344
Sports	519	Speakers	503-504	Speaker Brackets	377	Coils		IP67 USB	228
Camping		Stereo Wiring Kit	505	Speaker Grilles	381	Ferrite	156	M8 Circular	226
12V Accessories	446-448	Subwoofers	505	Smoke Detector - Covert	414	Radio	157	Quick Splice	232
Accessories	447-451	Suppressor Cap	505	Cellular Phone Charger	299	Colour		RCA	214
Fan	448	Testers	507	Central		Monitor	491	S-Video	222
Kettle	447	USB Chargers	300, 480	Door Locking	510	Printer - 3D	69-70	TNC	228
Stove	447	Voltage Converters	262, 264	Locking - Remote	510	Printer - Smartphone	311	TOSLINK	365
Lanterns	461	Voltage Display	34, 507	Centre Punch	59	Video Doorphone	424	USB	228
Candle		Wire	202	Ceramic		Communication		XT60	226
Remote Control LED	524	Caravan		Capacitors	151	Cable	199	Contact	
Tealight LED	524	Air Compressor	451	Fuses	178	Speakers	441	Adhesive Spray	45
CANBus Compatible Globes	499	Antennas	444	Terminal Blocks	232	Component Storage	66	Cleaner	45
Cannon Type Plugs (Amphenol)	216	Cabin Lighting	462-464	Cermet Trimtops	155	Compression		Converters	
Capacitance Meter	15	Portable RCD	444	Chargers		Crimp - RCA	214	3G SDI to HDMI	352
Capacitor		Power Packages	470	Battery - Automotive	239-242	Drivers - PA	382	Audio Digital to Analogue	359
Packs	151	Switch Banks	179	Battery - NiCd, NiMH, Li-ion	285-286	Compressor - Air	451	HDMI to VGA	352
Super	152	Strip Lighting	289-291	Battery - Gel / SLA	242			Video to VGA	330
		TV Outlet Box	367	Solar	469			DC to DC	264
				Chassis Kits - Robot	107			Networking	329
								VGA to Video	330

Cooler & Warmer - Portable	446	Desktop		Drop Proof	18	EC3 Bullet Connector	226	Fans	
Cooling Fans	166-170	Microphone	333	Environmental	17	ECLIPSE Alkaline Batteries	279	Axial	166-170
Copper Cable Shears	52	Power Supplies	266	Inductance	15	Ecolume Downlight Kits	292	Blower	168
Copper Wire	201	Thermo / Hygro / Barometer	456	Low Cost	13	Electric		Hydrodynamic	170
Cordgrip Grommets	207	Desoldering		Pocket	14	Door Strike	434	Maglev	170
Cordless		Braid	43	with Network Tester	20, 323	Drill	54	Portable	448
Groomer & Shaver	525	Pumps	43	Dome		Fence	450	Vehicle	448
Headphones	400	Station	41	Cameras	411-413	Motors	104	Fast Recovery Diode	139
Mouse	335	"Deutsch" Connectors	475	Dummy	417	Screwdriver	55	Fasteners	209
Phone Batteries	280	DIAC	141	Housings	416	Electrical		Feet	
Screwdriver	55	Die Cast		Tweeters	382	Insulation Material	176	Equipment	207
Soldering Irons	35-37	Heatsinks	171-172	Dongle		Shears	52	Rubber / Plastic	207
Cordline Switch	270	Splitters	367	Bluetooth® - Audio	399	Tape	46	Ferrite	
Corners - Speaker	385	Diecast Boxes	165	Bluetooth® - Computer	319	Tape - Liquid Type	46	High Frequency Chokes	156
Corrosion Inhibitor	45	Digital		HDMI	358	Electricians Screwdrivers	55	Products	156
Countersink Tool	60	2.4GHz Wireless Audio Sender	399	Wireless Network	318	Electrolytic Capacitors	152	RF Coil Pack	157
Coupler		2.4GHz Wireless HDMI Sender	356	Door		Electronic		Rods	156
Cat5e	345	2.4GHz Wireless Cameras	422	Announcers	433	Antifouling Ultrasonic - Boats	514	FETS	142
Drive Train	106	Antenna	368-370	Counter	433	Bugs	112	Fibre Optic	
Cover		Calipers	31	Entry Beam	433	EMC / RFI Suppression	156	Adaptors	365
Outdoor Alarm Siren	431	Capacitance Meter	15	Lock Kit	510	Emergency		Cables	365
Waterproof Switch	184	Clamp Meter	21	Release / Strike	434	Alarm Strobes	431	Crimp Tool	50
Covert		Frequency Counter	24	Doorbell		Auto Kit	449	TOSLINK Leads	365
Cameras	414, 420	Keypad with RFID	434	Globe	296	Floating Flares	512	Fibreglass PCB	102
Microphone & Recorder	420	Lux Meter	30	Push Button	181	Siren	431	Field Service Kit - Antistatic	59
CPU Cooler	338	Map Measure	450	Doorbells	432	Spotlights	434	Filaments for 3D Printer	
Cradle Relays	193	Megaohmmeter	20	Doorphones	424	Stop Switch	181	Exotic Finishes	71
Crimp		Microscope	113	Dot Matrix LCD Display		Strobe Lights	431, 511	Standard Colours	70
Lugs	237-238	Multimeter Fuses	22, 178	Arduino Compatible	97	Tapes	47	File	
Tool Kits	50, 238	Multimeters	13-19	Panel Mount	33	Warning Lights	449	Saw	60
Wire Connectors	232, 237	Panel Meters	34	Double		EMI Filter 240V (Mains)	158	Set	60
Crimping Tools	50	Radio	396	Adaptors - Mains	274	EMI / RFI Chokes	156	Filters	
CRO		Set-Top Box	359	Adaptors - Telephone	346	Enamel Copper Wire	201	4G/LTE - Digital TV	372
Digital Storage	24	Sound Level Meter	29	Sided Tape	47	Enclosures		ADSL	346
LCD - Handheld	25	Storage Oscilloscope	24	Downlights		ABS	161-164	Car	505
Probe	25	Television Antennae	368-370	LED Kits	292	Aluminium	165	Mains	158, 275
Crococlip Clips	476	Thermometers	28	LED Replacement Lamps	293	Black Box - Gadget	161	Telephone	346
Crossover		Video Tape Converter	312	Drawer - Parts	66	DRIBOX Enclosures	273	Fire Blankets	449
Capacitors	150, 152	Video Recorder	408, 423	Dribox Waterproof Enclosures	273	Polycarbonate	163	Fire Starters	449
Networking Cables	323	Voice Recorders	312	Drill		Potting	162	First Aid Kit	
Crystal Earpiece	402	Wi-Fi Microscope	113	Assistant	54	Rack	342	Personal	449
Crystals	141	Digital TV - 4G/LTE Filter	372	Bits	60	Sealed	163, 165	Roadside Emergency	449
Cube Speakers	380	Relays	190	Chuck	60	Eneloop Batteries	283	Fish Finder	512
Current Shunts	34	Switches	189	Electric	54	Engraver	53	Flameless Candles	524
Curie Point Soldering Station	42	Dimmer - Mains	314	Press Stand	54	Engine Car Kit - Air Powered	112	Flared Speaker Ports	385
Cutters		DIN		Drill Bit		Entry Alarm / Buzzer	433	Flash Tube, Xenon	177
Side	48	Plugs	222	Accessories	60	Environmental		Flashing LEDs	134
with Pliers	49	Rail	343	Stepped	60	DMM	17	Flexible	
with Wire Stripper	50-52	Rail Brackets	263, 343	Drills	54	Meters & Testers	26-30	Book Light	523
D		Rail Power Supplies	264	Drive Belts - Audio	398	Plug-in sensors	32	Inspection Cameras	32
D Connectors	234	Diode Bridges	140	Driver Bit Sets	56	Epoxy Bond	46	Keyboard	334
DAB+ Radio		Diodes	139	Driving Spot / Flood Lights	492-497	Equipment		LED Light Strips	290
Component Tuner	396	Diodes - Zener	139	DSO	24	Cooling Fan	166-170	Magnifier	61
Portable	397	DIP Switches	189	D-Sub Connectors	234	Feet	207	Magnetic Pick-Up	59
Damping Material	385	Diplexer - TV	371	Dual		ESD Safe		Magnetic Strip	58
Danfoss Compressor - Fridges	446	DisEqC Satellite Motor	371	Battery Isolator	245	Desoldering Station	41	Solar Panels	248
Dart Board	522	Disk Drive		Battery Monitor	246	SMD Rework Station	41	Table Lamp	523
Dashboard Mounting HUD	508	Cables	338	Layer DVDs	337	Soldering Station	42	UHF Radio Antenna	442
Dash Cams	487-489	Power Cables	338	Stage Lead Acid Chargers	239	Etching		USB Light	326
Data		Power Plug	235	Tracking Power Supply	261	Equipment	102	Float Switch	187
Loggers	26	Disks		Ducting - Cable	206	Pen	102	Floodlights	
Switches	321	CD-R	337	duinotech Arduino Boards	80-84	Ethernet		Portable	492-496
DB9 Connectors	234	DVD-Recordable	337	Dummy Cameras	417	Cables	323	Vehicular	466
D Type Connectors	234	Displays		Dune Tube	208	Over Power	322	Floppy Drive Power Splitter	338
DC		11 Digit Fluoro	136	DURATECH Soldering Station	41	Switch	321	Fluorescent Tube Adaptors	295
Buzzers	195	7 Segment LED	135	Dust Remover	45	Europe Mains IEC Lead	268	Flush Mount	
Connectors	225	Dot Matrix	97	Duster - Air	45	Evaporative Cooler	448	Camera - Reversing	490
Fans	166-170	Panel Meter	34	DVD		Event Recorders	487-489	Ceiling Light	463
Jacks	225	DisplayPort Leads Adaptors	330-331	Cleaner	338	Evoluta Panasonic Batteries	279	Ceiling Speaker	381-382
Motors	104	Distance Meters	30	Maker	312	Extension Cords		Cigarette Lighter Socket	477
Power Adaptors	225	Distribution		Media	337	Car Antenna	502	IR Extender	357
Power Cable	202	Amplifier - Video	360	DVD-R & DVD-RW Disks	337	CCTV	415	LED Downlight Kit	292
Power Meters	246	Block - 12V	483, 506	DVI Cables	328, 365	DRIBOX Enclosures	273	Mains Panel Socket	270
Power Plugs	225	Post	252	DVR		Mains - 240V	273	PCB Supports	210
to AC Inverters	254-259	DIY Security Packages	426-428	Camera Kit - DIY	403-405	Telephone	345	Wall Plates	219
to DC Converters	262, 264	DIY Surveillance Packages	403-407	HDD	406	Extension Ringer - Telephone	346	Flux	
Deadening Material	385, 502	DJ Mixers	392	Recorders - Standalone	408	Extractor Tool - IC	149	Solder Pen	43
Deans Style DC Connectors	226	DMM		Wireless	422	Eye Terminals	237-238	Removal Solution	62, 103
Deburring Tool	60	Cases	22	Dwell Tacho DMM	16	EZ Hooks	23	FM	
Decals - Alarm	428	Fuses Replacement	22, 178	Dynamo		F		Antenna	368
Deep Cycle		CAT IV Test Leads	23	Hand Crank	104	F Type		Modulators	305
Batteries	244	Kit	131	Torch with Igniter	449	Connectors	230	Radios	396
Battery Box	247	Lead Clips	23	Torch Radio	449	Leads	363	Transmitters	305-306
Battery Chargers	239-242	Leads	23			Splitters	367	FME Connectors	228
Diesel Jump Starters	484-486	DMMs				Fake Camera	417	Foam, Conductive (Non-static)	145
Demagnetiser	55	Autorangeing	14-19			Fan		Fog	
Desk		Capacitance	15	Earphone Pads	402	Adaptor	170	Juice	395
Grommet	206	CAT III	13-16	Earphones	402	Assisted Heatsink	172	Machine	395
Lamp with Magnifier	62	CAT IV	17-19	Earth		Guards	170	Scent	395
Mat - Antistatic	59	Clamp Style	21	Leakage Tester	269	Personal	448	Fold-up	
Stand / Microphone Holder	387			Rare Earth Magnets	58			Bucket	447

PRODUCT INDEX

INDEXES

Foot Switch	181	Globes		Extenders	355	IP55	
Forehead Thermometer	526	CANBus Compatible	499	IR Extenders	355	Axial Fans	168
Fork Terminals	237-238	LED Incandescent Replacements	294	Leads	353-354	Connector Box	273
Foxtel		T5, T10, T20	498	Splitters	348-350	LED Floodlight Globes	294
Approved Cable	198	Torch	296	Switchers	347-350	Video Doorphone	424-425
F Type Plug / Socket	230-231	Glue		Transmitter & Receiver	356	IP65 Sealed Enclosures	
F-socket Wall Plates	367	Epoxy	46	Travel Kit	353	ABS	163
Compatible IR Extender	357	Gun	53	UHD Accessories	349-355	Die Cast Aluminium	165
Freezing Spray	45	Spray	45	Upscalers	351-352	Polycarbonate	163
Frequency Counter - DSO	24	Sticks	53	Wall Plate Sockets	366	IP67	
Fridge		Strips	47	VGA Converter	351-352	Audio Connector	211, 217
Camping	446	Super	46	HD Digital Setup Box	359	D-Sub Connectors	234
Replacement Power Leads	446	Wire	103	HDTV To Smart TV Converter	359	Ferrule Crimp PV Connectors	251
Folding Stand	446	Gold Detectors	445	Head Torches	459	Multi-pole Connectors	226
Fridge Thermometer	28, 456	Gold Plated		Headlight Kit HID	497	RJ45 Connectors	344
Front Panels - Rack	342	Cable Joiners	506	Header		USB Connectors	228
Fuel Cell		Fuses	178, 506	for Arduino	93, 236	IPX8 Waterproof Cases	65
Alcohol Breath Tester	451	PCB for Arduino	85	Pin	236	iPod® / iPhone® / iPad®	
Car Kit - Educational	112	Power Terminals	475, 506	Plugs	235	Accessories	299-312
Fuel Mixture Display for Cars	507	Speaker Terminals	221	Headphone		Battery Backup Case	302
Function Generator - Handheld	26	Gooseneck		Accessories	212, 401	Bluetooth® Receiver	399
Fuse		Microphone	387	Computer	401	Bluetooth® PA Speaker	390-391
Clips	178	Torch	458	Cordless	400	Brackets	304
Gang Blocks	179	GOOT		Gaming	401	Charge / Sync Lead	308
Link	482	Desoldering Wick	43	General	401	Chargers	299-301
Packs	482	Soldering Station	42	Noise Cancelling	400	Fish Finder	512
Tester	286	Soldering Irons	38	Portable Receiver	399	In-car Charger	300
Wire	178	GoPro® Compatible		Wireless Digital	400	In-car Holder	304
Fuse Holders		Camera Mount	521	Health & Fitness		Lightning Leads	308
12 Volt Gold	506	Quadcopter Mount	518	Body Scale	526	Microscope	113
Blade	482	GPO (General Purpose Outlet)		Blood Pressure Monitor	526	Power Boosting Lead	307
In Line	178	Caravan	269	Thermometers	526	Radiation Counter	32
Panel mount	179	Mains Tester	269	Heart Rate Monitor	526	Repair Kit	57
Safety	179	USB	269	Pedometer	526	Speakers	310
Fuse/Switch Panels	179	Wallplates	270	Stopwatch	526	Telescope	445
Fused Terminal Blocks	179, 483	GPS/GSM Car Tracking Device	436	Heart Rate Monitor	526	Tool Kit	57
Fuse Holders - Car	482	GPS Charger	301	Heatshrink		Tracker	306
Fuses		Grain of Wheat Mini Globes	296	Braided Sleeve	204	Waterproof Cases	305
Blade	482	Green Power		Gun	37	IR	
Car	482	Ignitor	449	Pre-Cut	205	Door Beams	433
Ceramic	178	Kits	111-112	Quick Connectors	238	Extender - Foxtel Compatible	357
Fast Blow	178	LED Mains Globes	294	Solder Splice	206	Headphones	400
Gold Plated	178, 506	Lighting	292-295	Trade Pack	205	Remote Controls	358
High Current	251	Torches	449	Tubing	204	Repeater	357
Littelfuse	251	Water Pumps	247	Heatsink		Thermometer	27-28
Mini Blade	482	Greencaps	150	Compound	171	Irons - Soldering	35-42
Slow Blow	178	Grille		Compound - Silver	171	Isolated Stepdown Transformers	267
Thermal	172	Cloth	385	Heatsinks		Isopropyl Alcohol Cleaning Pads	103
G		Speakers	381	Diecast	171-172	J	
G4 LED Replacement Lights	293	Grips for Phones	304	Fan Assisted	172	Jacob's Ladder Kit	130
Gadgets & Gizmos		Grommet, Desk	206	for LEDs	172	Jewellers Screwdrivers	55
Bathroom Gadgets	526	Ground Loop Isolator	505	General	171-172	Jiffy Boxes	161
Desktop	522	Guitar	170	HID		Joiners	
Games & Toys	515-517	Leads	362	Light Kits for Cars	497	Belling Lee	230
Health & Fitness	526	Karaoke Mixer	386	Spotlights	460	Cable - Coax	230
Home & Office	522	Practice Amp - Kit	120	Hidden Surveillance	414, 420	Cannon	217
Kitchen Gadgets	525	Gyroscope		High		Mini DIN 6 Pin	222
Gaffer Tape	47	Robotic Kit	108	Brightness LEDs	133	RCA	215
Gaming		Quadcopter	516	Current Connectors	223, 226	RJ45	345
Audio Selector	360	Hall Effect		Current Fuses	251	SMA	229
AV Selector	360	Device	137	Frequency Ferrites	156	S-Video	222
Earphones	402	Sensor IC	137	Gain UHF/VHF Antenna	368-370	TOSLINK	365
Headphones	401	Vane - HKZ101	137	Intensity Discharge Headlight	497	"JOW" Cable Clamp Connectors	232
Keyboards & Mice	334	Halogen		Intensity Discharge Spotlight	460	Jumbo Thermometers	456
Tool Kit	57, 334	Globes	296	Hobby		Jump Starters	
Garage Door Remotes	435	Replacements	293	Knife Set	58	with Battery Tester	484
Garage / Shed Solar Light	434	Spotlights	460	Motors	104	Capacitor	485
Garbage Reminder Kit	126	Hand		Solar Panel	112	Compact	484
Garden Lighting Transformer	267	Lotion - Anti Static	49	Home		Heavy Duty	486
Garage Remote Opening	509	Powered Dynamo Torch	449	Alarms	426-429	with Inverter	485
Gas		Tools	48-60	Automation	313-316	Jump Start Cables	476, 486
Bottle Level Monitor	447	Handheld		Unit Subwoofer	380	Jumper	
Butane	45	Oscilloscope	25	Hook		Lead Kit	476
Detector	447	Transceivers	438-443	and Loop Tape	385	Kit for Arduino	93, 236
Discharge Arresters	158	Handles - Cabinet	385	and Pick Set	59	Shunts	236
Leakage Detector	447	Hard Disk Drive		Up Wire	201	Junction Boxes - Mains	270
PORTASOL	36	Cases	338	Horn		K	
Soldering Irons - General	35-37	Notebook 1TB	339	Relay	194	Karaoke Microphone Mixer	386
Torches	37	Surveillance 2TB	410	Relay Base	194	K-Type Thermocouples	22
Gearbox Sets	106	HDMI		Rechargeable Air	461	Kevlar Coaxial Speakers	504
Gearhead Motors	105	4K UHD Converters	351	Speaker	431	Key Switches	187
Geiger Counter for Smartphone	32	Adaptor	353	Horse Shoe Magnets	58	Keyboard	
Gel Battery		Audio Extractor	350	Hot		Computer	334
Batteries	244	Connecting Cables	353-354	Glue Guns	53	Roll Up	334
Chargers	239-242	Connectors	353	Line Filters	505	Keyboard & Mouse Set	334
Testers	486	Converters	350-352	Housing Brackets CCD	416	Keyless Entry for Cars	510
Gender Changers Computer	329	Dongle	358	Hubs - Computer	335	Keypad	
General Purpose Mains Outlet	270			Hydraulic Robot Arm Kit	107	Computer	334
Glands - Cable	207			Hygrometers	456	RFID	434
Globe Holders	295					Security	434

Keyring		Free Solder Station	41-42	PAR Stage Lighting	393	Marine		Spy Recorder	420
Finder	522	Free Wire Glue	103	Party	392-394	AGM Deep Cycle Battery	244	Throat	439
Laser Pointer	312	Leads		Security	434	Battery Chargers	241	Tie Clasp	387
Locator for iPhone®	306, 435	Audio	361-364	Solar	434	Battery Isolator Kit	245	UHF Wireless	388
Screwdriver	63	Audio / Video	363-364	Stage	393-394	Battery Terminals	246, 475	Unidirectional	386
Spirit Level	63	Cigarette Lighter	477-479	Stand	393	Cables	202	Microscopes	113
Torches	458	Computer	327-328	T5 - T8 Tube Adaptors	295	Cigarette Plugs / Sockets	478	Microswitches	188
Weather Stations	452	Fibre Optic	365	T5 & T10 Replacements	498	Communications Speaker	441, 512	Midrange Speakers	384
Tracking Case for iPhone®4	306	Guitar	362	Transformers	267	Distress LED Light	512	Mini	
Keystone Plates / Socket Kits	344, 366	Mains	273	Lightning Adaptors	308	Flood Lights	492-494	Blade Fuses	482
Arduino	78	Microphone	362	Lights		Horn Speaker	431	Buzzers	195
Audio	122-124	Multimeter	23	Camping	461	LED Lights	293-462	Coil Pack	157
Automotive	124-126	SCART	363	Caravan	462	LED Strip Lights	289	Digital Thermometers	28, 456
Back Catalogue	130	S-Video	363-364	Driving Spot / Flood Lights	492-497	Power Cable	202	PC Board - pcDuino	73
Clock Making	110	Telephone	345-346	Solar Shed / Garage	434	Radios	513	Public Address System	390
Computer	131	Test	23	Li-ion/Li-Po Battery Charger	286	Speakers	513	Screwdriver Set	55
Educational	107-112	TV	364, 374	Lilliput Globes	136, 296	Spot Lights	492-494	Tap & Die Set	60
Household	126	Video	363-365	Line Filters		Switch Panel	179	Toggle Switches	183
Kids Alt Energy	111	Learning Remotes	358	12VDC	505	TV Antennas	369	UHF Connectors	229
Lighting	127	LED		240VAC	158, 275	Ultrasonic Antifouling	514	USB Hub	335
Marine	126	Bar Graphs	136-97	Line Plugs & Sockets - IEC	268	VHF Transceivers	443	XLR Type Connectors	218
Power	128	Bezels	135	Linker Modules for Arduino	75-77	Waterproof Connectors	475	Mirror	
Radio	123	Bike Light	461	Liquid Electrical Tape	46	Masthead Amplifiers		Bathroom	525
Robotics	107-111	Candles	524	Lithium Batteries	281	Amplifiers	372	Cable for Android	311
Security	130	Car Globes	498-497	Littelfuse High Current Fuses	251	Replacement Power Supply	372	HDMI Wi-Fi	358
Short Circuits 1	115	Caravan Lights	462-464	Locking Headers	235-236	Mat		Hidden Camera	414
Short Circuits 2	116-118	Collimators	135	Long Nose Pliers	48-49	Antistatic	59	Inspection	49
Short Circuits 3	119-120	Cree® LED Personal Lights	457-461	Loom Tube	208	Magnetic	55	Missile Switch Cover	184
Sci-Fi	130	Displays, 7 Segment	135	Loom Wrap	208	Mouse	335	Mixers Audio	392
Test & Measure	131	Downlight Kits	292	Lotion - Anti Static	49	Work	58	MKT Capacitors	150
Ultrasonic Antifouling	126	Floodlights	466	Loud Hailer	390, 431	Matrix		MMCX/SMA	
Knife		Globes	293-295	LPG Gas Level Monitor	447	Board	100	Adaptor	229
Artwork	58	G4 Lamp Replacements	293	Lubricants	45	Pins & Sockets	236	Leads	229, 365
Multi-Function	449	GU10 LED Downlights	293	Lug Crimping Tool	50	Meaning of Luck - Steve Waugh	399	Mobile Device Chargers	297-301
Survival	449	Head Torch	459	Lugs - Crimp	237-238	Mechanical Lube	45	Modem	
Knobs	160	Heatsink	172	Lux Meter	30	Mechatronics	105-108	ADSL2+	320
Krypton Globes	296	High Power	133	Luxeon		Megaphone	390	Leads	328
Kynar Wire	201	Holders	135	LED Lenses	135	Membrane Switch Panel	193	Modified Sine Wave Inverters	254-256
		Keyring Light	458	Power Supply	135	Memory		Modular	
		Lens	135			Cards	336	Crimp Tools	51
		Light Bars	495-496			Card Reader	336	Wall Sockets	227, 344
Laboratory		Module - Arduino	97	M6 Rack Mounting Hardware	209	Mercury Switches	187	Modulator RF	374
DSO	24	Mounting Hardware	135	M8 Circular Connectors	226	MES Globes & Holders	295-296	Modules	
Handheld Oscilloscopes	25	MR11 Lamp Replacements	293	Machine Pin IC Sockets	149	Metal		433MHz Wireless	138
Keypad	434	MR16 Lamp Replacements	293	Magnetic		Detectors	445	Pre-Built	131-132
Light Meter	30	Packs	134	Base Antennas	321	Film Resistors	154	Programmable Timer	132
Magnifiers	61-62	Panels Meters	34	Base Emergency Lights	449, 512	Oxide Varistors	158	Moisture	
Microscopes	113	Power Supplies	293	Base Vehicle Strobe	511	Spacers	210	Level Meter	30
Power Supplies	260	Spotlights for 4WD/Marine	492-494	Base Worklight	464	Metallised Polypropylene Caps	150	Repellent	45
Thermometers	28	Strip Lighting	289-291	Charging Hub	300	Meter		MOLEX Type Connectors	475
Variac	267	Strips - Flexible	291	Earpiece	402	DC Power	246	Monitor	
Weighing Scales	31	Strobe Lights	394	In-car Phone Holders	304	Digital Multimeter	13-19	Baby	423
Lacquer - PCB Protection	45	T5 & T10 Replacements	498	Pickup Tool	59	Light Measurement	30	Brackets	332
Table	523	Tester	134	Work Mat	55	Mains Power	278	Blood Pressure	526
Magnifying	62	Torches	457-458	Screened Speakers	383-384	Multimeters	13-19	Extension Lead	328
LAN		Work Lights	464-467	Strip	55, 58	Panel	33-34	Surveillance	410
Cables	323	LEDs		Tape	58	pH	30	TFT Security	491
Cards	319	3, 5, 10mm, & Rectangular	134	Wall Mount for iPad®	304	Sound Level	29	Monolithic Capacitors	151
DMM	20, 323	Colour Cycling	134	Magnetiser	55	Speaker Polarity Checker	378	MOSFETs	142
Tester	323	Flashing	134	Magnets	58	MHL Converter	309, 352	Mosquito Trap	450
Lantern		Infrared	138	Magnifying		Mica Washers	144	Motherboard Batteries	281-282
Battery	280	RGB PCB Mount	134	Glasses	61	Mice - Computer	335	Motorcycle	
Battery - Rechargeable	243	SMD	135	Lamps	61	Microcontrollers	148	Hands-Free Microphone	439
Camping	461	Superflux	134	Lenses	61	Microchip Milestones		Power Sockets	479
Laplink Cable	328	Ultra Bright	133	Mains (240V)		4000 Series CMOS	234	Motor / Gearbox Sets	105
Laptop Carry Cases	65	Lithium Iron Phosphate Batteries	284	Cable	200	555 Timer	146	Motor Speed Controller	262
Laptop Power Supplies		Light		Circuit Breakers	173, 251	A Short Story	280	Motors	
240V	340	Bars - LED	495-496	Double Adaptors	274	Aust Semiconductor Mfg	141	Dynamo	104
Car	340	Bike	461	Earth Leakage Tester	269	Demise of Dick Smith Elec	207	General	104
Laser		Book	523	Extension Cords	273	Fairchild Story	142	Servos	105
Diode, Red	138	Dependent Resistors	155	Fans	169	Light Emitting Diodes (LEDs)	138	Stepper	105
IR Gun Gadget	522	Emitting Diodes	133	Filters	158, 275	Planar Process	508	Mounting	
Levellor with Drill	54	Globes	296	Junction Boxes	270	Microphone		Brackets - CCTV	416
Light Show	394	Meter	30	Leads	273	Cable	197	Feet, Cabinet	207
Lights - DMX Controlled	394	Night LED	274	Mounting Blocks	270	Desk Stand	387	Mouse	
Measure	30	Solar	434	Plugs & Sockets	270	Diversity Receivers	389	Extension Lead	327
Pointer	312	Switches	270	Power Boards	275-276	Gooseneck	387	Mat	335
Presentation Controller	312	Lighting		Power Meter	278	Holder	387	Movement Detector	430
LCD		12VDC	462	Power Point	270	Inserts	387	MOVs	158
Calipers	31	Cabinet	462	Remote Control	277	Karaoke Mixer	386	MP3 Player Speakers	310
Panel Meters	34	Car	492-500	Surface Socket	270	Leads	362	MPPT Charge Controller	253
Screen Cleaner	377	Clamp	393	Switches	270	Mixer	392	MR11 LED Lamp Replacements	293
TFT Monitors	491	Driving Lights	492-497	Terminal Blocks	232	Plugs	216	MR16 LED Lamp Replacements	293
TV Brackets	375-376	Ecolume Downlight	292	Timer	277	Stand	387	MU45 Panel Meters	33
LDRs	155	G4 LED Replacement	293	Transformers	174-177	Wireless Systems	388	Multimeter	
Lead		Halogen LED Replacement	293-295	Mains Lead		Microphones		Analogue	20
Acid Batteries	243-244	Incandescent Globes	296	Cloverleaf	273	Balanced	386	Case	22
Acid Battery Chargers	239-242	MR11 Lamp Replacements	293	Computer	273	Cardioid	386	Digital	13-19
Acid Battery Conditioner	247	MR16 LED Lamps	293	Map Distance Measure	450	Computer	333	Leads	23
Free Solder	43	PAR Home Floodlight	294			Electret Inserts	387	Multi-Tool	449
						Multimedia	333	Multiturn Trimpots	155
						Personal PA	390	Mylar Capacitors	150

PRODUCT INDEX

INDEXES

N				Mosquito Traps	450	Pen	102	CB	229	Mains Meter - Wireless	278
Near Field (NFC) Speaker	309-310			Speakers	378	Pin Sockets	236	Cigarette Lighter	477-479	Over Ethernet	322
Needle File Set	60			Thermometers	452-456	Pins	236	Coaxial	229-231	Packs with Solar Panels	468
Neon						Spacers	209	Computer	234	Point Tester	269
Pigtail	136, 296			P		Standoffs	210	D Type	234	Supply	260-267
Screwdriver	56			PA		Supports	210	DC Power	225-211	Power Points, Mains	270
Nerd Perks Programme	7			Amplifier	379-380	Terminals	233	DIN	222	Power Supplies	
Network				Portable	390	Wash Defluxing Solution	62, 103	F Type	230	Bench	260-261
Access Point	317			Speakers	390	PCI Cards		FME	228	Dual Tracking	261
Adaptors	318			Panasonic Batteries		Network	319	HDMI	353	Laboratory	260-261
Antennas	321			Alkaline	279	Wireless Network	319	IC Sockets	149	Laptop	340
Cable	200			Eneloop	283	Pearl		IDC	236	Mean Well Switchmode	264
Cable Tester	323			Lithium	282	Catch	59	IEC	273-268	PowerTech Switchmode	263
Cards	319			Panel Meter		LEDs	498	IP67 Audio	211, 217	Switchmode Plugpack	265
Ethernet-over-power	322			Analogue	33	Pedometer	526	IP67 D Type	234	Powerboards - Mains	
Extenders	317			Digital	34	Peltier Modules	142	IP67 Multi-way	226	Energy Saving	276
Leads	323			LCD Type	34	Pen - 3D Free Style	68	IP67 PV Connectors	251	Home Theatre	276
Power-over-Ethernet	322			LED Type	34	Personal Mini PA	390	IP67 RJ45	227, 344	Multi-Way	275-276
Switch	321			Shunts	34	Perspex	102	IP67 USB	228	Remote Controlled	276
Tools	51			Panel Mount		Pest Control - Ultrasonic	450	Mains	270	Weatherproof Enclosure	273
Video Recorder	403			Automotive Relay	194	pH Meter	30	Microphone	216-218	Power Point Tester	269
Wi-Fi Bridge	319			Circuit Breakers	173, 481	Phone		Mini DIN	222	Precision Screwdrivers	55
Wireless	319			Connectors - Circular	226	Battery Banks	303	Mini UHF	229	Pre-Programmed TV Remotes	358
Neutrik Connectors	213, 218			Connectors - IEC	268	Batteries - Cordless Type	280	Mini XLR	218	Press n Peel PCB Film	103
Nibbling Tool	58			Connectors - Solar	251	Cable	199	N Type	229	Printed Circuit Board (Blank)	102
Ni-Cd				EMI Filter	158, 268	Chargers	298-301	Neutrik	213, 218	Printer Cables	327
Batteries	284			Fuse Holders	179-482	Plugs / Sockets	213-214	Phono	213-214	Probes	
Chargers	285			IR Receiver	357	Pre-Amp	360	RCA	214-216	CRO	25
Nichrome Resistance Wire	201			Piezo Buzzer	195			RJ Type	227, 344	Multimeter	23
Night Lights	274			Relays	193	Photo		SCART	214	Professional	
Night Vision Monocular	445			Sockets - Cigarette Lighter	477-480	Diode	138	SMA	229	Cameras	412-414
Ni-MH				Sockets - Push Terminals	221	Interrupters	137	Smart Card	149	Digital Video Recorders (DVRs)	409
Batteries	283			Sockets - RCA	215	Printer	311	Speaker	221	Security Monitors	410
Chargers	285			Sockets - USB	228	Transistor	138	Speakon	218	Programmable	
Nineteen Inch Rack Cases	342			Switches - Pushbutton	181	PIC		S-Video	222	Battery Charger	286
Noise				Switches - Toggle	183	Books	148	Telephone	227	LED Message Signs	523
Cancelling Headphones	400			Switches - Slide	188	ICs	148	Trailer	500	Remotes	358
Filters - Car	505			Terminals	233	Pick & Hook Set	59	TNC	228	Robot Kits	107-108
Suppressors - Ferrite	156			Panels - Rack	342	Piezo		TV	229-231	Timer Module	132
Non				Panic Alarms	435	Buzzers	195	UHF	229	Project Boxes	161
Conductive Fasteners	209			PAR Lamps		Driver	382	USB	228	Projector - Portable Video	311
Contact Thermometers	27-28			Spotlights	393	Ignition Gas Equipment	35-37	Valve	142	Prototyping Boards	100
Non-static Insertion Foam	145			LED Home Floodlight	294	Pressure Sensor	137	XLR	216	PS/2 Adaptors	329
Nook LED Lights	464			Lighting Kit	393	Sirens	431	Pocket	31	PTZ Surveillance Systems	413
Notebook				Parabolic "Spy" Microphone	420	Speakers	382	Scales	63	Punch-Down Tool - Cat5	51, 343
Cable Lock	332			Parrot Clips	23	Tweeters	382	Tool	63	Pure Sine Wave Inverters	257-259
Camera	333			Parts Storage Systems	66	PIHER Trimpots	155	Polarity Checker	56	Pushbutton	
Cooling Pads	338			Party		Pillow Speaker	402	Polycarbonate Enclosures	163	Switch Caps	181
Lights	326			Amplifiers	379-380	Pin		Polyester Capacitors	150	Switches	182
Power Supply	340			Bubble Machine	395	Extractor Tool	475	Polyswitches	172	Pushwheel Switch	189
NTC Thermistors	140			Fog Machine	395	Headers	236	Porcelain Terminal Blocks	232	PVH Tape	46
Numeric Keypad	189			Lighting & Accessories	392-395	Switches	187, 511	Portable			
Nuts & Screws	209			Vice	386	Pinhole Cameras	414, 420	Amplifier - PA	379		
N-Way switches	321			Sound Mixers	391	PIR Sensor	430	Battery Banks	302		
Nylon				Speakers	391	PL259 Connectors	229	Business Card Scanner	312	Qi Chargers	
Cable Ties	208			Passive IR Detectors	430	Planes - R/C	517	Camping Shower	447	Case for iPhone®5	302
Nuts & Screws	209			Patch Leads - Cat5e	323	Planetarium Experiment Kit	112	Cooler & Warmer	446	Pads for iPhone® / Samsung	302
Spacers	209			Pay TV		Plasma Screen Brackets	375-376	Data Loggers	26	Pads for Samsung S3/S4	302
Terminal Blocks	232			Remote Control	358	Plastic		Electric Screwdriver	55	Quadcopters	516
				Sender / Receiver	356	Boxes	161-164	Fans	448	Qualcomm® Quick Charge 2.0	
				pcDuino		Screws	209	Fridge / Freezer	446	QC2.0 Battery Bank	297, 303
				Boards	73	Tool Kit	57	Function Generator	26	QC2.0 Car Charger	298
				Enclosures	74	Welding Kit	37	Gas Soldering Iron	35-37	QC2.0 Mains Charger	297
				Monitor	73	PLCC		HDD Cases	338	Quartz	
				Modules	74	Extractor	149	Inverter	254	Clock movement	110
				Card Readers	335-311, 336	Sockets	149	Lanterns	461	Crystals	141
				Cameras	333	Pliers	49	Metal Detector	445	Quick Chargers for Smartphones	297
				Keyboards	334	Bull Nose	48	Oscilloscopes	25	Quick	
				Leads	327, 365	Long Nose	48	PA Speakers	391	Connectors	237-238
				Monitor Brackets	332	Sheet Metal Bending	49	PA Systems	390	Changing Crimp Tool	51
				Mouse	335	Plug-in		Party Lights	393	Splice Connectors	232
				Power Splitter Cable	338	Environment Sensors	32	Presentation Aid	312		
				Speakers	333	Laser Pointer	312	Speakers	310	Rabbit Ears - TV	368
				Switch	321	Terminal Blocks	233	Storage Cases	66	Racing	
				USB Hubs	335	USB Tester	326	Stove	447	Boats - RC	517
				Ventilation	170	Plugpacks		Solar Panels	469	Cars - R/C	515
				PCB		General	265-266	PORTASOL Gas Solder Irons	36	Ignition Switch Panel	180
				Boards	100	Masthead Amplifier	372	Ports - Speaker	385	Rack	
				Cleaner	45	Plugs / Sockets		Pot Core & Bobbin	157	Amplifiers	380
				Conductive Pen	103	2.5mm Phono	211	Potato Clock	112	Hardware	209
				Drills & Bits	60	240V	270	Potentiometer Nuts/Washers	159, 209	Hardware	209
				Etchant Materials	102	3.5mm Phono	212	Potentiometers	159	Panels & Accessories	342
				Film	103	6.5mm Phono	213-214	Potting Boxes	162	Patch Panels	343
				Headers	235	Amphenol IP67	226	Power		Radiation Counter for iPhone®	32
				Holders	44	Banana	220	Boards	275-276	Radios	
				Lacquer	45	Belling Lee	229-230	Cable	200	DAB+	396
				Maker / Marker Pen	102	Binding Posts	220	CCTV Supplies	415	Dynamo	449
				Mount RCA Sockets	215	BNC	231	Distribution Blocks	270, 483	FM	396
				Mount Relays	190	Cannon Amphenol	216	Door Lock - Car	510	Marine	513
				Mount Screw Terminals	233	Cat5	227, 344	Driver Bit Sets	56	Short Wave	397
				Mount Switches	182-183			Mains Leads	273	Transceivers	438-443
				Mount Miniature Transformers	177			Mains Meter	278	World Band	397
										Rain Gauges	452-455

Rainbow Cable	200	Wire Wound	154	Screened		Slide Switches	188	Spanner Sets	57
Rare Earth Magnets	58	Res-Q-Tape	47	AV Cables	197-198	Slow Blow Fuses	178	Speaker	
Raspberry Pi - See Arduino	73-99	Retro Music Centres	398	RJ45	227, 344	SLR Camera Batteries	281	Brackets	377
Ratchet Crimping Tools	50	Reversing Car		Speakers	383	Snap-In/On		Cabinet Ports	385
RB Capacitors	153	Camera Kits	488-490	Screw Terminals	233	9V Battery Clips	288	Cable	196
RCA		Cameras	490	Screwdrivers		Enclosures	163	Ceiling grille	381
Adaptor Sockets	215-217	RF		Cordless	55	IEC Sockets	268	Cloth	385
Leads - Hi-Fi	364	Chokes	156	Electric	55	Project Kits	109	Communication	441
Plugs / Sockets	214-216	Induction Soldering Station	42	Electricians	55	Rocker Switches	184-186	Connectors	218
RCD for Caravans	444	Modulator	374	Jewellers	55	SMA/MMCX		Corners	385
Rechargeable		Powerboard	276	Keyring	63	Adaptors	306	Damping Materials	385
Air Horn	461	Wireless Mouse	335	Magnetiser	55	Leads	229, 365	Exciter	382
Batteries	283-284	RFID		Miniature	55	Smart Cards	142	Flex	196
Card Reader	311, 336	Access Control Module	434	Neon	56, 507	Smartphone		Grille Cloth	385
Fans	448	Doorphone - RFID Access	425	Plastic	57	Chargers	297-301	Grilles - Ceiling	381
Headphones / Headsets	400	RFID Tags	434	Sets	55	Fish Finder	512	Handles	385
Lanterns	461	RGB		Test	56	OTG Cable	307	Horn Type	431
Lighting	467	LED Strip Lights	291	Scribes	209	Telescope	445	Innerboard	385
Oscilloscope	25	RCA Leads	364	Scroll Mouse	335	Waterproof Holders	305	Level Converter	501, 505
PA Speakers	390	Ribbon Cable	200	Scrolling Message Display	523	SMD		Polyswitches	172
Pedometer	526	Right Angle Adaptors		SD Cards	336	2.5mm Stereo Socket	211	Ports	385
Portable Speakers	310	Belling Lee	230	Sealed		555 Timer	146	Resonator	382
Solar Lights	434	BNC	231, 415	ABS Enclosures	163	Amplifier IC	146	Screws	209
Sports Camera	519	DB9	329	Aluminium Boxes	165	Darlington Arrays	148	Selectors	378
Spotlight	460	F Type	230	Lead Acid Batteries	243-244	Diodes	139	Siren Type	431
Torches	458	HDMI	353	Lead Acid Battery Chargers	239-242	EMI/RFI Chokes	156	Switches	378
Tracking Device	436	Headphone	212	Polycarbonate Enclosures	163	Linear IC	146	Terminals	221
Work Lights	464-467	RCA	216	Toggle Switches	184	LEDs	135	Transformer	177
World Band Radios	396	VGA	329	Security		Light Transporter, LED	135	Travel	310
Recordable CDs	337	Ring Cores	156	Beams	433	Memory Card Sockets	149	Tripod	377
Recordable DVDs	337	Riston - PCB Etching Kit	102	Cameras	411-421	Optocouplers	137	Speakers	
Recorder		RJ45		Car Alarms	510	PIC Microcontrollers	148	Amplified	390
Video - Digital	408, 423	Boots	227, 344	DVR	408	Pickup Tool	149	Car	503-504
Voice	312	Leads Cat5e	323	DVR HDD	410	Special Function IC	148	Ceiling	381-382
Rectangular LED's	134	Leads Cat6a	323	DVR & Camera Kits	404-407	Stereo Socket	211	Coaxial	503-504
Rectifier Diodes	139	RJ12 Reducer	345	Home Alarms	426-429	Switches - Tactile	182	Computer	333
Reed		Screened	227, 344	Keypad	434	Socket Mounting Cup - 6.5mm	213	Indoor / Outdoor	378
Relays	190	Roadside Emergency Kit	449	Lights	434	Sockets - IC	149	In Wall	382
Switches - Alarm	430	Robotics		Monitors	410	Solar		Midranges	384
Regulated Power Supplies		Books	81	Personal Alarms	435	Amorphous Panels	248	Multimedia	310
Benchtop / Laboratory	260	Chassis	107	Pressure Mat	429	Books	252	PA	390
Hard Wired	263	Construction Kits	107-111	RFID Unit	434	Cable - UV Stable	203, 249	Party	391
Plugpack	265	Gyro-Robot	108	Screwdrivers	55	Car Battery Booster	469	Piezo Driver	382
Regulators		Mechatronics	105-108	Stand-Alone Alarms	426-429	Cells	249	Piezo Tweeters	382
Active	140	Solar Educational	111	Wired Alarm	428	Charge Controllers	252	Powered Subwoofers	380
Solar	252	Rocker Switches for 4WD	185	Wireless Alarm	426	Connectors	251	Shielded	383-384
Relays		Rod - Ferrite	156	Selfie Stick	305	Flexible Panels	248	Selectors	378
Automotive	194	Rotary		Self Amalgamating Tape	46	Folding Panels	469-470	Subwoofers - Car	505
Cradle	193	Switches	189	Self Tapping Screws	209	Hobby Project Panel	112	Subwoofers - Home	380
Flasher	509	Tools	53	Semiconductors	137-149	Lighting & Power Kits	468, 471	Switch	378
General	190-193	Router		Sensors - Ultrasonic	142	Monocrystalline Panels	249	Tweeters	382
Horn	194	802.11ac	321	Service Aids	43-47	Mounting Hardware	250	Woofers	384
Mini - PCB Type	191	802.11n	320	Servos	105	Pond Pump	247	Speed Boats - RC	517
Solid State	191-192	Broadband	320	Set-Top		Power Banks	468	Speedo	
Wiring Kit	194, 509	RS232		Box	359	Recreational Packages	470	Corrector Module for Cars	132, 507
Remote		Cables	328	Remote Control	358	Regulators	252	HUD	508
Monitoring IP Camera	420	to USB Converter	329	Shaft Coupler	106	USB Charger	303	Spiral Binding	208
Security Alarm	426, 429	Rubber		Shears	52	Water Pump	247	Splitters	
Remote Control		Feet	207	Sheet Metal		Solder		CCTV Power	415
Antenna - Outdoor	369	Grommets	207	Bender	54	60/40	43	Diecast - F Type	367
Boats	517			Bending Pliers	49	Braid	43	TV	367
Cases	164			Nibbling Tool	58	Flux Pen / Paste	43	UTP - Cat5	322, 346
Cars	515	SAE Type Lead	480	Shielded Speakers	384	Lead Free	43	Video - VGA	330
HDMI Switchers	347-350	Safety Distress Light	512	Short Circuits Learning	114-120	Lugs	235	Sports Cameras	519-521
Lighting Effects	392-394	Samsung S3/S4/S5		Shortwave Radio	397	Paste	44	Spotlights	
PayTV Extender	357	Chargers	302	Shower - Camping	447	Silver	43	4WD	492-494
Planes	517	Qi Charging Pads	302	Side Cutters	48	Splice Heatshrink	206	Driving Spot / Flood	492-497
Powerboard	276	Telescope	445	Signal Generator	26	Suckers	43	Emergency	434
Quadcopter	516	Satellite		Silicone Rescue Tape	47	Wick	43	Halogen	460
Relay Boards	509	Finder	371	Silver		Soldering		IR	416
Robot Kit	108	Motor	371	Conductive Pen	103	Fume Extractor	44	HID	460
LED Signboard	523	Scales		Conductive Varnish	103	Irons - Electric	38	LED	460
Remote Controls		Body - Wireless	526	Heatsink Compound	171	Irons - Gas	35-37	Marine	492-494
Aircon	358	Digital Pocket Type	31	Solder	43	PORTASOL	36	Spray	
Car Alarm - Learning	510	Hand Held	31	Sine Wave Inverters	257-259	Starter Kit	39	Cans	45
Case	164	Kitchen	525	Single Board Mini PC	73	Stand	44	Contact Adhesive	45
Infra Red	358	Luggage	31	Siren Cover	431	Stations	40-42	Sprocket Sets	106
Mains Outlets	277	Scanner - Business Card	312	Sirens		Tip Cleaner	44	Spruiking PA Systems	390
Pay TV	358	Schottky Diodes	139	Backup Battery Type	511	Tip Conditioner	44	Spy	
RF	435	Schottky IC's, Low Power	145	Car	511	Solenoids	105	Cameras	420
Universal	358	Science Educational Kits		Horn Type	431	Solid State Relays	191-192	Clock Camera	420
Rescue Tape - Silicone	47	Car Kit	112	Home	431	Solvent - Cleaning	45	Pen Camera	420
Resistance Wire, Nichrome	201	Electronics & Electrical	109-112	Siren / Strobe Combo	431	Sound		Smoke Detector	414
Resistor		Robotics	108, 111	Speaker type	431	Deadening Material Car	385, 502	Stackable Fuse Holders	483
Packs	155	Potato Clock	112	SLA		Level Meter Digital	29	Stainless Steel Tools	48
Wheel	155	Solar	111-112	Batteries	243-244	Spacers		Stage Lights	392-394
Resistors		Scopes		Battery Carry Bag	243	Metal	210	Stand-alone	
Carbon Film	154	For Smartphones	445	Battery Chargers	239-242	Nylon	209	Alarms	429
Light Dependant (LDR)	155	Monocular	445	Battery Disconnect	245	Spade Lugs	237-238	Cameras	419
Metal Film	154	SCR	141	Sleeving	204-205	Spaghetti Tubing	205	Standoffs, PCB	209

PRODUCT INDEX

INDEXES

Stands		Light	270	Cage Clamp	232	Scissor Clamps	49	Antenna - Mounting Hardware	373
Fridge	446	Low Voltage, Inline	186, 266	Ceramic Blocks	232	Screwdrivers	55	Baluns	374
Microphone	387	Mains / 240V	270	Chocolate Blocks	232	Spanner Set	57	Brackets Wall	375-376
Soldering	44	Mercury	187	"JOW" Clamp	232	Staple Guns	49, 206	Cable	198
Speaker	377	Micro	188	Nylon Blocks	232	Thread Repair	209	Coax - Belden	198
Staple Gun	49, 206	Mini	183	Porcelain Blocks	232	Torx Drivers	56	Diplexers	371
Stepdown Transformer 240-115V	267	Missile Switch Cover	184	Strips	232	Tweezers	58	Distribution Amplifier	371
Stepper Motors	105	Momentary	181	Strips - Plug & Socket	232	Vices	54	Headphones	400
Steve Waugh "Meaning of Luck"	399	Network	321	Terminals		Wire Strippers	52	Leads - Antenna	374
Stereo		PCB Mount	182-183	BNC	231	Toothbrush UV Sanitiser	526	Leads - AV	363-364
Headphones	400-402	Pushbutton	181	Car Battery	246, 475	Top Hat		Leads - HDMI	354
Speakers - Portable	310	Pushwheel	189	Gold	506	Siren	431	Masthead Amps	372
Stickers - Alarm	416, 428	Reed	187, 430	Test		Speaker Adaptor	377	Modulators	374
Sticky Grip Phone Holders	304	Rocker	184-186	Clips / Hooks	23	Torch Globes	296	Mounting Brackets	375-376
Storage Cases	64-66	Rotary	189	Equipment	13-33	Torches		Plugs & Sockets	229-231
Strap Handles	385	Sealed Mini Toggle	183	Light	56, 507	Cree® LED	457-458	Remotes	358
Strikes - Door	434	Slide	188	Probes - Multimeter	23	Flashlights	457	Satellite Finder	371
Strippers - Wire & Cable	52-52	SMD	182	Screwdriver	56	Head Type	459	Signal Strength Meter	371
Strobe		Speaker	378	TFT Monitor		HID Spotlight	460	Splitters	367
Alarm	431, 511	Tactile	182	12V	491	High Intensity Discharge	460	Wall Sockets	367
Car	511	Tamper (Pin)	187, 511	Security	410	Keyring Torch	458	Tweeters	
LED Marine	512	Toggle	183-184	Wireless Headphones	491	Rechargeable	458	Dome	382
Party	394	Video	360	Thermal		Windup	449	Piezo	382
Stud Detectors	31	Water Proof Hood - Toggle	183	Circuit Breaker	173	Toroidal		Tweezers	58
Stunt Planes - R/C	517	Waterproof Cap - Rocker	186	Fuses	172	Cores	156		
Sub-C Batteries	283-284	Switchmode		Transfer Tape	171	Transformers	177		
Subwoofer		Plugpacks	265	Thermaltronics®		Torx Bit Sets	56		
Amps Home	380	Power Supplies	263-264	Soldering Station	42	TOSLINK		U-Clamp	373
Home Theatre	380	Sync Leads	308	Soldering Tips	42	Adaptors	365	UHD HDMI Accessories	347-355
Ports	385					Cables	365	UHF	
Subwoofers - Car	505					Touch Switch Controllers	463	CB Antennas	442
Subwoofers - Home	380					Tracking Devices		CB Base	442
Super						Child	436	Connectors	229
Capacitors	152					GSM/GPS - Car	436	In-dash Transceiver	441
Glue	46					GSM/GPS - Personal	436	Remotes	510
Suppression						iPhone®	306	Transceivers	438-441
Sleeves	157					Luggage	436	TV Antennas	369-370
Surface Mount IC Sockets	149					Personal	436	Wireless Microphones	388
Surface Mount Components						Trailer		UJT Transistors	142
2.5mm Stereo Socket	211					Adaptors	500	UK Mains IEC Lead	268
555 Timer	146					Plugs & Cable	500	Ultimate Breadboards	100
Amplifier IC	146					Lighting	500	Ultra Slim Power Adaptors	265
Darlington Arrays	148					Transceivers	438-443	Ultrasonic	
DC Power Socket	225					Transducers - Ultrasonic	142	Antifouling for Boats	514
Diodes	139					Transformers		Cleaner	62
EMI/RFI Chokes	156					240V Primary	174	Cleaner Solution	62, 103
LEDs	135					PCB Mount, Audio	177	Pest Repeller	450
Light Transporter, LED	135					Plug Pack	266	Sensors	142
Linear IC	146					Speaker	177	Transducers	142
Optocouplers	137					Stepdown	267	Water Tank Meter	452
PIC Microcontrollers	148					Strobe Trigger	177	Tank Level Meter	452
Pickup Tool	149					Toroidal	177	Ultraviolet Lights	395
Special Function IC	148					Transient Voltage Suppressor	158	Under Dash	
Stereo Socket	211					Transistor		Cigarette Lighter Sockets	477
Switches - Tactile	182					Cover	144	Marine Power Socket	478
Surge Protectors	274-276					Insulators	144	UHF CB Radio	441
Surge Protectors - Gas	158					Mounting Kits	144	USB Power Socket	480
Surveillance Equipment	403-425					Pack	144	Unidirectional Microphones	386
Survival						Transistors	143-144	Uninterruptible Power Supply	341
First Aid Kit	449					Transmission Components	106	Universal Remotes	358
Knife	449					Transmitters		UPS	341
S-Video						Audio Sender / Receiver	399	Upscalers - HDMI	351-352
Adaptors	222					AV Sender / Receiver	356	USA Mains IEC Lead	268
Leads	363-364					Travel		USB	
Plugs & Sockets	222					Adaptors	271-272	2.0 Hub	335
Switcher	360					HDMI Lead Kit	353	3.0 Card Reader	335
Switch / Fuse Panels	179					TRIACS	141	3.0 HDD Adaptor	339
Switchers						Trimmer Capacitors	150	3.0 Leads	327
Audio	360					Trimpots	155	Adaptors	329
HDMI	347-350					Ceramic	155	Bluetooth® Dongle	319
Speaker	378					Cermet Type	155	Cigarette Lighter Chargers	300
AV	360					Multiturn	155	Connectors	228
Switches						Piher brand	155	Converters	329
Alarm	187, 430					Single Turn Carbon	155	DVI Adaptor	330
Audio	360					Truck Inverter	255, 259	Extension Cable	327
Barrel	187					Trunk		External Hard Disk Case	338
Bed lamp	182					Groove Bracket	442	Card Reader	335-336
Binary	189					Release Solenoid	510	Hubs	335
Car - "Condura" Style	185					TTL IC's	145	Leads	327
Car, Illuminated	184-185					Tube - Dune	208	Midi Cable	334, 387
Computer - ATX	182					Tuner		Motorcycle Mount	479
DIL	189					Digital Radio	396	Mouse	335
Door - Automotive	187, 511					Set-Top Box	359	Notebook Camera	333
Door - Building	430					USB TV	333	OTG Cable	307
Doorbell	181					Tuning Capacitor	157	Portable Speaker	333
Float	187					Turntable	398	Power Bank	303
Foot	181					TV		Power Booster	307
Illuminated	180-186					Accessories	370	Power Meter	326
IP Rated	180, 185					Amplifiers	372	Prankster	334
Joystick - Arduino	90					Antenna - Digital	368-370	Rechargeable AA Batteries	284
Key	187					Antenna - Indoor	368	Server	320
Keypads	189					Antenna - Outdoor	370	Solar Charger	303

USB (continued)		Reducer 24-12volt	264	CB Radio	439, 443	Cat5 / Se / 6	200	Trackers	436
Turntables	398	Regulators	140	Cameras - Sports	519	Communications	199	Weather Stations	453-455
TV Tuner	333	Suppression - Transient	158	Cases - iPod® / iPad®	305	Data	200	Wirewound	
Type-C Leads & Adaptors	324-326	Testers	269	Coaxial F-Plug	230	DC Power	202	Potentiometer	159
Wireless Dongle	318	Volume Leveller	350	D-Sub Connectors	234	Hook-up	201	Resistors	154
UV Ultraviolet		VOX Headset	439	DC Connector	225	Microphone	199	Wirewrap Sockets	149
LED	133			"Deutsch" Connectors	475	Sleeving	204	Wiring Kit	
Fluoro Light	395	W		DRiBOX Enclosures	273	Solar System	203, 249	Battery Isolator	245
Toothbrush Sanitiser	526	Wafer Cards	142	Driving Lights	492-494	Speaker	196	Car Amp	505
V		Walkie Talkies	438-440	Keypad	434	Telephone	199	DC Plug	266
V-Block	373	Walkman Headphones	401	LED Strip	290	Wire Wrap	201	LED Driving Lights	194, 509
Valve Sockets	142	Wall		Pushbutton	181	Wireless		Woodscrews	209
Variac	267	Brackets, TV	375-376	Multimeter	17-19	2.4GHz DIGITAL Security	422	Woofers	384
Varistors	158	Socket - Coax	367	RJ45 Connector	227, 344	802.11ac/n Routers	320	Work Bench Equipment	13-66
Varnish	45	Socket - Modular	219, 366	Siren - 12V	511	802.11n Network Adaptors	318	Work Lights	464-467
Vehicles RC Batteries	284	Wallplates		Speakers	310, 512	802.11n Network Card	319	Workmat	58
Velcro		Banana	221	Surveillance Cameras	411-414	Alarm - Home	426-429	Worm Drive	106
Cable Ties	208	Binding Post	221	Switch Hoods	183-186	AV Transmitter	356	Wrist Strap Antistatic	59
Self Adhesive	385	Blank	367	Tablet Cases	305	Bluetooth® Speaker	310		
Velleman		F Type	367	Tape	47	Bridge	319	X	
Handheld Oscilloscope	25	Foxtel Approved	367	Torches	458	Camera Finder	416	Xenon	
Handheld Function Generator	26	GPO	270	Transceivers	439, 443	Cameras - IP	420	Flash Globe	177
Verbatim Media	337	HDMI	366	XLR Connectors	217	Doorbell	432	HID Lamps	497
Vernier Calipers	31	Keystone	344, 366	Weather Stations	452-455	Doorphone	424	XLR	
Veroboard	100	Multi Purpose	219	Weatherproof		Extender	317	Connectors	216
VHF Transceivers	443	RCA	219	Buzzer	195	FM Car Transmitter	305	Connectors - Miniature	218
Vice Break	54	Stainless Steel XLR	219	Box for RCD	269, 444	Guitar Link	386	Leads	362
VGA		TV	367	Cigarette Lighter	477	Headphones	400	Waterproof Connectors	217
Balun	360	USB	219, 366	Fuse Block	483	Home Automation	313-316	XT60 Bullet Connectors	226
Cables	328	VGA, 15 Pin	219	Lanterns	461	Hotspot with Card Reader	311, 336	Y	
Splitters	330	Video	219, 366	Powerboard Enclosure	273	Intercom	432	Y-Lead	
Video Converter	330	Washers		Spotlights	460	IP Camera	420	Cigarette Plug / Socket	479
Wall Plates - 15 Pin	219	General	209	Time Lapse Cameras	419	Keyboard	334	DC Plug	415
Vice	54	Mica	144	Web Cameras	333	LED Downlight Control	292	IEC Power	273
VIDAFLEX Sleeving	205	Transistor	144	Wi-Fi - See "Wireless"		Mains Outlet	277		
Video		Watch		Widerange Speakers	383	Mains Powerboards	276	Z	
Amplifier	360	Batteries	282	Widescreen 7" TFT LCD Monitor	491	Marine Stereo	512	Zener Diodes	139
Cables	363-365	Camera	420	Wind Gauge	452-455	Microphones	388	ZIF Sockets	149
Door Phone	424	Repair Kits	63	Wind Speed Meter	452	Mouse	335	Zip Ties	208
Leads	363-364	Strap Spring Bars	63	Winding Wire	201	Network Extender	317	Zipper Wrap	205
Monitors Security	410	Watchmaker Repair Tools	63	Windup Torch	449	Networking	317-321		
Projector - Portable	311	Water Misting Fan	448	Wire		NFA (Near Field) Speaker	309	Trademarks and copyrights are the property of their respective owners.	
Recorder Digital	408, 423	Water Pump Solar	247	Connectors - Crimp	237-238	Power Monitor	278	Copyright 2016	
Splitter	360	Waterproof		Cutters	48	Rain Gauge	452-455		
Splitter - VGA	330	ABS Cases	65	Enamelled Copper	201	Remote Control Extender	357		
TFT Monitor	491	Adhesives / Epoxy	46	Loom Tube	208	Reversing Cameras	488		
Voice Recorders	312	Alarm Strobes	431, 511	Strippers	52-52	Speakers - In-Ceiling	381		
Volt Tester	269	Audio Connectors	211, 217	Wire & Cable		Speakers - PA	390		
Voltage		Battery Cases	288	AC Mains	200	Speakers - Portable	310		
Converters - Car Electrical	262	Bluetooth® Speaker	310	Alarm	199	Speakers - Wall	378		
		Cable Glands	207	AV	197-198	Surveillance	422		

BOOK INDEX

Numerical

3D Printing with Autodesk 123D, TickerCAD & MakerBOT	BM7122	69
30 Arduino Projects for the Evil Genius	BM-7134	95
41 Projects Using 741 IC	BM-2430	146
309 Circuits	BM-2470	145
311 Circuits	BM-2471	145
555 Timer & its Applications	BM-2466	146

A

Arduino + Android Projects for the Evil Genius	BM-7136	81
Arduino Circuits & Project Guide	BM-7142	79
Arduino Robot Builder's Bonanza	BM-7135	95
Arduino Workshop Book - 65 Projects	BM-7137	81

B

Build Your Own Coils & Transformers	BM-2440	176
-------------------------------------	---------	-----

C

C Programming for Microcontrollers	BT-1384	86
------------------------------------	---------	----

E

Electronics Demystified	BM-7106	137
Etch Your Own PC Boards	BI-8212	102

H

How to Test Almost Anything Electronic	BM-7200	22
--	---------	----

I

Installing Your Own Closed Circuit TV System	BI-8206	417
Installing Your Own TV Antenna	BI-8210	367

LOOK FOR THE ICON



K

Kit Constructor's Manual	BI-8200	124
--------------------------	---------	-----

M

Mastering Microcontrollers Helped by Arduino	BM-7144	91
Mastering the I2C Bus	BT-1386	147
Motorhome Electrics	BE-1536	249

P

Practical Arduino	BM-7132	93
Programming & Customising the PIC Microcontroller - 3rd Ed	BT-1347	148
Programming Android APPs	BT-1382	79
Programming Arduino: Getting Started with Sketches	BM-7133	79
Python Programming & GUIs	BT-1380	79

S

Short Circuits - Vol 1	BJ-8502	114
Short Circuits - Vol 2	BJ-8504	114
Short Circuits - Vol 3	BJ-8505	114
Silicon Chip Magazine	BE-5025	130
Solar Success - Getting it Right Every Time	BE-1537	252
Solar that Really Works	BE-1535	252

T

Teach Yourself Electricity & Electronics	BM-7108	336
The Meaning of Luck by Steve Waugh	BC-1010	399

W

Wireless at War Book	BM-2490	282
----------------------	---------	-----

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ardrossanhardware1@bigpond.com
Ph: 08 8837 3206

BALAKLAVA

Balaklava Newsagency & Giftware
balaknew@bigpond.net.au
Ph: 08 8862 1725

BARMERA

Barmera Electronics
barmelec@bigpond.com
Ph: 08 8588 2381

BERRI

Berri Betta Home Living
berri@my.betta.com.au
Ph: 08 8582 2322

CEDUNA

Ceduna Betta Home Living
sales@cedunabetta.com.au
Ph: 08 8625 3053

CLARE

Midnorth Communications
ross@midnorthcomms.com.au
Ph: 08 8842 1210

KADINA

Kadina Betta Electrical
kadina@my.betta.com.au
Ph: 08 8821 3600

KINGSCOTE

Ingrams Home & Timber Hardware
ingramshome@bigpond.com
Ph: 08 8553 2822

LOXTON

Scarfe's Electronics
email@scarfes.com.au
Ph: 08 8584 6700

MOUNT BARKER

Just Fix It Electronics & Computers
justfixit@internode.on.net
Ph: 08 8391 5554

MOUNT GAMBIER

Anvil Electronics
sales@anvilelectronics.com.au
Ph: 08 8725 3366

MURRAY BRIDGE

Classic Lights Of Murray Bridge
classicligh@internode.on.net
Ph: 08 8532 1433

NARACOORTE

Rm Electronics
sales@rmelectronics.com.au
Ph: 08 8762 0120

NURIOOTPA

Valley Locksmiths
matt@valleylocksmiths.com.au
Ph: 08 8562 2269

PETERBOROUGH

Peterborough Newsagency
pboroughagency@inet.net.au
Ph: 08 8651 2137

PORT AUGUSTA

Electrical Discounters
augusta@electricaldiscounters.com.au
Ph: 08 8641 0044

PORT LINCOLN

Electrical Discounters
ptlincoln@electricaldiscounters.com.au
Ph: 08 8683 3333

PORT PIRIE

Electrical Discounters
pirie@electricaldiscounters.com.au
Ph: 08 8633 1000

STRATHALBYN

12 Volt Sales
sales@12voltsales.com.au
Ph: 08 8536 2144

WAIKERIE

GB Electrical & Security Services
ktemple@gbelectrical.net.au
Ph: 08 8541 4240

WHYALLA NORRIE

Electrical Discounters
whyalla@electricaldiscounters.com.au
Ph: 08 8644 0333

TASMANIA

BURNIE

Electronics Plus
stevelec@southcom.com.au
Ph: 03 6432 2644

DEVONPORT

Leading Edge Electronics Devonport
lead@codas.com.au
Ph: 03 6424 8322

SCOTSDALE

Scottdale Leading Appliance
scottdale@leadingappliances.com.au
Ph: 03 6352 2066

SMITHTON

W T House Betta Home Living
wthouse@my.betta.com.au
Ph: 03 6452 1295

ST HELENS

East Coast Auto Parts
ecapst@bigpond.net.au
Ph: 03 6376 2500

VICTORIA

ALEXANDRA

Chookies Bi-Rite Electrical
alexandra@brite.com.au
Ph: 03 5772 2152

ARARAT

Jerram Auto Parts & Electronics
jaycar@jerrams.com.au
Ph: 03 5352 2666

BAIRNSDALE

Batteryland Bairnsdale
admin@batterylandbairnsdale.com.au
Ph: 03 5153 0045

BALLARAT

Ballararat Electronics
sales@wiltrotons.com.au
Ph: 03 5334 2566

BENALLA

Cooper's Benalla Pty. Ltd.
jamie@coopersbenalla.com.au
Ph: 03 5762 3633

BENDIGO

Bendigo Electronics
sales@bendigoelectronics.com.au
Ph: 03 5444 4044

COBRAM

Cobram Betta Home Living
cobram@my.betta.com.au
Ph: 03 5871 2111

COLAC

Autopro Colac
sales@autoprocolac.com.au
Ph: 03 5231 4441

ECHUCA

Switched On Electronics
admin@switchedonelectronics.com.au
Ph: 03 5480 2122

EUROA

Thomsons Home Furnishers
thomsons@leadingappliances.com.au
Ph: 03 5795 2195

HEALESVILLE

Shorelec Electrical
enquiries@shorelec.com.au
Ph: 03 5962 6500

HORSHAM

Leading Edge Electronics Horsham
leeh4@optusnet.com.au
Ph: 03 5382 4150

KILMORE

Kilmore Lighting & Electrical Pty Ltd
sales@kilmorelighting.com.au
Ph: 03 5782 1790

KYNETON

Autopro Kyneton
sales@autoprokyneton.com.au
Ph: 03 5422 3477

LEONGATHA

Leongatha Photographic
leelongatha@lpe.net.au
Ph: 03 5662 3227

MANSFIELD

Mansfield Betta Home Living
mansfield@my.betta.com.au
Ph: 03 5775 1992

MARYBOROUGH

Microblast Computers
drm@microblastcomputers.com
Ph: 03 5460 4006

MOUNT BEAUTY

Mt Beauty Hardware & Drapery
mbhd@aapt.net.au
Ph: 03 5754 1999

PAKENHAM

Roylaines - Pakenham
pakenham@roylaines.com.au
Ph: 03 5941 1562

PORTLAND

Multicomm IT
sales@multicomm.com.au
Ph: 03 5564 7040

ROBINVALE

Robinvale Leading Appliances
admin.robinvale@leadingappliances.com.au
Ph: 03 5026 4955

SALE

The Electronic Barn
elecbar@westnet.com.au
Ph: 03 5144 7700

SEYMOUR

Auto Pro Seymour
sales@seymourtruckparts.com.au
Ph: 03 5799 0888

STAWELL

David O Jones Mitre 10
m10retail@vic.chariot.net.au
Ph: 03 5358 1205

SUNBURY

Sunbury City Electrical & Electronics
jansce@inet.net.au
Ph: 03 9744 4144

SWAN HILL

Syd Wilson Auto Electrics
darren@sydwilsonautoelectrics.com.au
Ph: 03 5032 2005

TRARALGON

Geek Heaven
geekheaven@traralgon@gmail.com
Ph: 03 5174 2266

WANGARATTA

Tomainos Car Audio & Hi Fi
tomainos@optusnet.com.au
Ph: 03 5722 2232

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North West AG Services P/L
Dan.Mcdonald@northwestag.com.au
Ph: 03 5394 1024

WARRAGUL

Roylaines - Warragul
warragul@roylaines.com.au
Ph: 03 5623 4255

WARRNAMBOOL

Multicomm IT
sales@multicomm.com.au
Ph: 03 5564 7000

WONTHAGGI

Wonthaggi Electronics
admin@raneye.com.au
Ph: 03 5672 4774

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Hbt - D & L Patton
dlpatton1@bigpond.com
Ph: 03 5182 6390

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ken_crutchfield@bigpond.com
Ph: 03 5744 1852

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Albany Leading Edge Hi Fi
lehifi@omninet.net.au
Ph: 08 9841 2077

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Leeuwin Networks & Leeuwin
leeuwinnetworks@augusta.wa.au
Ph: 08 97581444

BUSSELTON

Bussleton Electronics & Tooling
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Ph: 08 9754 2991

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Dicks Electronics
sales@dicksselectronics.com.au
Ph: 08 9071 7411

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Network Video Exmouth
netvideosexmouth@yahoo.com.au
Ph: 08 9949 1013

GERALDTON

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onestopgeraldton@westnet.com.au
Ph: 08 9921 1278

KALGOORLIE

Batteries N More
sales@batteriesnmore.com.au
Ph: 08 9022 2216

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Wheatbelt Tech N'Toys
wbgifts@bigpond.net.au
Ph: 08 9041 4175

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Knightline Computers
sales@knightline.com.au
Ph: 08 9881 4834

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Few Daw & Sons
fedaw@wn.com.au
Ph: 08 9838 1008

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Cook Island Printing Services
Jaycar@cookprint.com
Ph: 682 262 38

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Universal Electronics
sales@universal.com.fj
Ph: 679 672 4020

FIJI - SUVA

Universal Electronics
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Ph: 679 331 2808

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accounts@tolec.com.pg
Ph: 675 472 4242

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Territorial Enterprises
showroommanager@tepng.com
Ph: 675 325 6322

SAMOA

Ricoh Samoa
sales@samoaoonline.ws
Ph: 649 573 0577

SOLOMON ISLANDS

Greyleen Electronics
greyleen@solomon.com.sb
Ph: 677 300 57

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Oceania Printing Technologies
sales@ricohotonga.com
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info@greentech@vanuatu.com.vu
Ph: 678 251 42

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mary@johnstoneelectrical.co.nz
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Blenheim Electronics Ltd
blenheim.electronics@xtra.co.nz
Ph: 03 577 7710

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Folders Electronics
lan@folders.co.nz
Ph: 09 408 0855

MASTERTON

Electric Blue Electronics
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Ph: 06 377 1870

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Nelson Electronics
jaycar.nelson@xtra.co.nz
Ph: 03 539 4345

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Plug N Play Electronics
sales@plugnplay.co.nz
Ph: 06 758 0050

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Oamaru Computer Services
sales@oamarucomputers.co.nz
Ph: 03 434 2084

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The Computer Place
sales@cando.co.nz
Ph: 04 297 2226

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Trico Electronics Ltd
tricoe@gmail.com
Ph: 09 239 1317

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Van Dyks Technology
technology@vandyks.co.nz
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grant@tctaupo.co.nz
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sales@browns100.co.nz
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chas@kmelectronics.co.nz
Ph: 03 688 1580

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Gulf Sound & Vision
gsv@xtra.co.nz
Ph: 09 372 1112

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waihi100@xtra.co.nz
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Ph: 06 838 6606

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Saturday: 8.30am to 5.00pm
Sun: 10.00am to 4.00pm
Sun (WA): 11.00am to 5.00pm

New store

New location

*For late night trading hours and exceptions check your local store listing.

For Public Holidays trading hours check our website:
www.jaycar.com.au

HEAD OFFICE

320 Victoria Rd
Rydalmere NSW 2116 Australia

ADMINISTRATION & ACCOUNT ENQUIRIES:

Phone: (02) 8832 3100
Fax: (02) 8832 3229
Int'l Phone: +61 2 8832 3100

NEW ZEALAND:

With over 80 stores in Australia and 13 in New Zealand we are struggling to fit them all on the back of the catalogue. If you're looking for New Zealand store details, call our staff on 0800 452 922 or visit our website:
www.jaycar.co.nz

TECHSTORE

Web: www.jaycar.com.au
Email: techstore@jaycar.com.au
Post: PO BOX 7172, Silverwater DC NSW 1811
Freecall: 1800 022 888
Phone: (02) 8832 3245
Fax: (02) 8832 3118
Office: Mon-Fri 8.30-5.30, Sat 8.30-5.00 (AEST)

INTERNATIONAL:

Web: www.jaycar.com
Email: techstore@jaycar.com
Phone: +61 2 8832 3245
Office: Mon-Fri 8.30-5.30 AEST (GMT +10 hours)

USA/CANADA:

Web: www.jaycar.com
Email: techstore@jaycar.com
Freecall: 1800 784 0263

UNITED KINGDOM:

Web: www.jaycar.co.uk
Email: techstore@jaycar.co.uk
Freecall: 0800 032 7241

A full list of Jaycar Authorised Stockists is on the inside back cover on this catalogue.



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BJ-5000 \$4.95

ACT

BELCONNEN
Ph: (02) 6253 5700
54 Weedon Cl, 2617
*Fri: 8.30-6.30

FYSHWICK
Ph: (02) 6239 1801
121 Wollongong St, 2609
*Fri: 8.30-6.30

TUGGERANONG
Ph: (02) 6293 3270
12-14/56-58 Athlton Drive,
Greenway, 2900
*Thurs: 8.30-7.30
*Sun: Closed

NSW

ALBURY
Ph: (02) 6021 6788
565 Hume St, 2640
*Thurs: 8.30-6.30

ALEXANDRIA
Ph: (02) 9699 4699
647 Botany Rd, 2015
*Thurs: 8.30-7.30

BANKSTOWN
Ph: (02) 9709 2822
1/165 Canterbury Rd, 2200
*Thurs: 8.30-7.30

BLACKTOWN
Ph: (02) 9672 8400
2/102 Sunnyholt Rd, 2148
(Cnr Bessemer St)
*Thurs: 8.30-7.30

BONDI JUNCTION
Ph: (02) 9369 3899
125 Bronte Rd, 2022
(Cnr Birrell St)
*Thurs: 8.30-7.30

BROOKVALE
Ph: (02) 9905 4130
208 Harbord Rd, 2100
*Thurs: 8.30-7.30

CAMPBELLTOWN
Ph: (02) 4625 0775
2/4 Rose St, 2560
*Thurs: 8.30-7.30

CASTLE HILL
Ph: (02) 9634 4470
Shop 2/2 Anella Ave,
(Cnr Anella & Victoria Ave)
Castle Hill, 2154
*Thurs: 8.30-7.30

COFFS HARBOUR
Ph: (02) 6651 5238
Shop 7 The Bailey Centre,
150 Pacific Hwy, 2450
*Thurs: 8.30-7.30

CROYDON
Ph: (02) 9799 0402
700 Parramatta Rd, 2132
*Thurs: 8.30-7.30

DUBBO
Ph: (02) 6881 8778
2/68-74 Erskine St, 2830
*Thurs: 8.30-6.30

ERINA
Ph: (02) 4367 8190
1 Aston Rd, 2250
*Thurs: 8.30-7.30

GORE HILL
Ph: (02) 9439 4799
188 Pacific Hwy, 2065
*Thurs: 8.30-7.30

HORNSBY
Ph: (02) 9476 6221
130 George St, 2077
*Thurs: 8.30-7.30

LIVERPOOL
Ph: (02) 9821 3100
26/27 Cnr Hume Highway
& Sappho Rd,
Warwick Farm, 2170
Thurs: 8.30-7.30

MAITLAND
Ph: (02) 4934 4911
2/175 High St, 2320
*Thurs: 8.30-7.30

MONA VALE
Ph: (02) 9979 1711
48 Darley Street, 2103
*Thurs: 8.30-6.30

NEWCASTLE
Ph: (02) 4968 4722
1/585 Maitland Rd,
Mayfield West, 2304
*Thurs: 8.30-7.30

PENRITH

Ph: (02) 4721 8337
20 Henry St, 2750
*Thurs: 8.30-7.30

PORT MACQUARIE
Ph: (02) 6581 4476
7/148 Lake Rd, 2444
*Thurs: 8.30-7.30

RYDALMERE
Ph: (02) 8832 3120
320 Victoria Rd, 2116
*Thurs: 8.30-7.30

SHELLHARBOUR
Ph: (02) 4256 5106
150-152 New Lake
Entrance Rd, Oakflats, 2529
(enter via Government Rd &
Lake Entrance Rd.)
*Thurs: 8.30-7.30

SMITHFIELD
Ph: (02) 9604 7411
16 Smithfield Road, 2164
(Cumberland Hwy)
*Thurs: 8.30-7.30

SYDNEY CITY
Ph: (02) 9267 1614
127 York St, 2000
(Opposite QVB)
*Mon-Fri: 8.30-6.00
*Thurs: 8.30-7.30

TAREN POINT
Ph: (02) 9531 7033
49A Captain Cook Dr,
Caringbah, 2229
*Thurs: 8.30-7.30

TUGGERAH
Ph: (02) 4353 5016
118 Pacific Hwy, 2259
*Thurs: 8.30-7.30

WAGGA WAGGA
Ph: (02) 6931 9333
2/31-35 Hammond Ave, 2650
(Cnr Mason St)
*Thurs: 8.30-6.30
*Sun: 10.00-3.00

WARNERS BAY
Ph: (02) 4954 8100
2/276 Macquarie Rd, 2282
*Thurs: 8.30-7.30

WOLLONGONG
Ph: (02) 4225 0969
1/99 Princes Highway,
Fairy Meadow, 2519
*Thurs: 8.30-7.30

NT

DARWIN
Ph: (08) 8948 4043
297 Bagot Rd,
Coconut Grove, 0810
*Fri: 8.30-7.30

QLD

ASPLEY
Ph: (07) 3863 0099
1322 Gympie Rd, 4034
*Thurs: 8.30-7.30

BROWNS PLAINS
Ph: (07) 3800 0877
29 Grand Plaza Drive, 4118
*Thurs: 8.30-7.30

CABOOLTURE
Ph: (07) 5432 3152
37-41 Morayfield Rd, 4510
*Thurs: 8.30-7.30

CAIRNS
Ph: (07) 4041 6747
153 Mulgrave Rd, 4870
*Thurs: 8.30-7.30

CALOUNDRA
Ph: (07) 5491 1000
68 Caloundra Rd, 4551
*Thurs: 8.30-6.30

CAPALABA
Ph: (07) 3245 2014
2/79 Redland Bay Rd, 4157
*Thurs: 8.30-7.30

GOLD COAST
Ph: (07) 5526 6722
2574 Gold Coast Hwy,
Mermaid Beach, 4218
*Thurs: 8.30-7.30

IPSWICH
Ph: (07) 3282 5800
1/160 Brisbane Rd,
(Opp Booval Fair)
Booval, 4304
*Thurs: 8.30-7.30

LABRADOR

Ph: (07) 5537 4295
1A/142 Brisbane Rd, 4215
*Thurs: 8.30-7.30

MACKAY
Ph: (07) 4953 0611
195 Victoria St, 4740
*Thurs: 8.30-6.30

MAROOCHYDORE
Ph: (07) 5479 3511
100 Aerodrome Rd, 4558
*Thurs: 8.30-7.30

ROCKHAMPTON
Ph: (07) 4922 0880
128 Musgrave St, 4701
*Thurs: 8.30-6.30

STRATHPINE
Ph: (07) 3889 6910
Cnr Bells Pocket
& Gympie Rd, 4500
*Thurs: 8.30-7.30

TOWNSVILLE
Ph: (07) 4772 5022
167 Ingham Rd,
West End, 4810
*Thurs: 8.30-6.30

TWEED HEADS SOUTH
Ph: (07) 5524 6566
3A/32 Greenway Dr, 2486
*Thurs: 8.30-6.30

UNDERWOOD
Ph: (07) 3841 4888
3263 Logan Rd, 4119
*Thurs: 8.30-7.30

WOOLLOONGABBA
Ph: (07) 3393 0777
65 Ipswich Rd, 4102
(Cnr Wilton St)
*Thurs: 8.30-7.30

SA

ADELAIDE
Ph: (08) 8221 5191
221-223 Morphett St, 5000
*Fri: 8.30-7.30

CLOVELLY PARK
Ph: (08) 8276 6901
1168A South Rd, 5042
*Thurs: 8.30-7.30

ELIZABETH
Ph: (08) 8255 6999
5A/1 Philip Hwy, 5112
*Thurs: 8.30-7.30

GEPPE CROSS
Ph: (08) 8262 3200
3B/580 Main Nth Rd, 5094
*Thurs: 8.30-7.30

MODBURY
Ph: (08) 8265 7611
952 North East Rd, 5092
*Thurs: 8.30-7.30

REYNELLA
Ph: (08) 8387 3847
141 Sherriffs Rd, 5161
*Thurs: 8.30-6.30

TAS

HOBART
Ph: (03) 6272 9955
187-205 Main Rd,
Moonah, 7009
*Fri: 8.30-6.30

LAUNCESTON
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*Fri: 8.30-6.30

VIC

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*Fri: 8.30-7.30

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266 Sydney Rd, 3058
*Fri: 8.30-7.30

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815 Burwood Hwy, 3156
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80 Dandenong Rd West, 3199
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48 Mercer St, 3220
*Fri: 8.30-7.00

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1/261 Princes Hwy, 3803
*Fri: 8.30-7.30

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782 High St, 3102
*Fri: 8.30-7.30

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55-59 A Beckett St, 3000
*Fri: 8.30-6.30

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175 High St, 3337
*Fri: 8.30-6.30
*Sun: Closed

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5/161 Mornington-Tyabb
Rd, 3931
*Fri: 8.30-6.30

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*Fri: 8.30-7.30

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1/195 Somerton Rd,
Roxburgh Plaza, 3064
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4/575-585 Wyndham St, 3630
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*Fri: 8.30-7.30

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204 McIntyre Rd, 3020
*Fri: 8.30-7.30

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225B Settlement Rd, 3074
*Fri: 8.30-7.30

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Cnr Synnot & Wedge St, 3030
*Fri: 8.30-7.30

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53 Belmont Ave, 6104
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*Thurs: 8.30-7.30

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Kenwick, 6107
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*Thurs: 8.30-7.30

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Cnr Read St &
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